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2059 Lake Dr., Centerville, TN 37033

DR. CHRISTY MAYS
450 Hwy 50, Centerville, TN 37033

JANE HERRON
PO Box 13, Nunnely, TN 37137

SPECIAL CALLED SESSION
Tuesday, August 18, 2026 6:00 PM
Central Office - Room 203

- I. Call To Order - This will be a voting session
- II. Moment of Silence
- III. Pledge of Allegiance
- IV. Agenda for August 18, 2026
- V. Items Requiring Board Action
 - A. Approve Golf Simulator Bid for HCHS
 - B. Budget Amendments
- VI. Adjourn

Doug Lane
2059 Lake Drive, Centerville, TN 37033

Pippa Taylor
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Dr. Christy Mays
450 Hwy. 50, Centerville, TN 37033

Brandon Tidwell
10820 N. Tidwell Rd., Bon Aqua, TN 37025

Jane Herron
PO Box 13, Nunnely, TN 37137

The Hickman County Board of Education will meet in Special Called Session on Tuesday, August 18, 2026 at 6:00 p.m. in Room 203 of the Central Office Complex.

- I. Call To Order
This will be a voting session
- II. Moment of Silence
- III. Pledge of Allegiance
- IV. Agenda for August 18, 2026
- V. Items Requiring Board Action
 - A. Approve Golf Simulator Bid for HCHS—Business Officer
 - B. Budget Amendments—Business Officer
- VI. Adjourn

Invitation to
Bid

The Hickman County Finance Office is accepting sealed bids for a Golf Launch Monitor and Virtual Simulator.

Bid with specifications are online at: www.hickmank12.org/request-for-proposal.

All bidders will be required to submit a conflict of interest disclosure form that can be obtained at www.hickmank12.org/request-for-proposal.

Sealed bids must be mailed or delivered to the Hickman County Finance Office, 114 North Central Avenue, Suite 203, Centerville, TN 37033 and clearly marked on the outside of the envelope "Golf Launch Monitor and Virtual Simulator". Bids will be opened on Thursday, August 6th, 2026 at 10:00 a.m. in the Finance Office.

The Hickman County Board of Education reserves the right to accept or reject any and all bids or parts of bids and to waive any informalities that would prevent the acceptance of a better bid.

QuakeLogic Inc. 62,490.00

Indoor Training
Solutions 45,345.00

Present
Penny Rockelle

Nicole Wright

Hickman County Government

Conflict of Interest Disclosure Form

The County Financial Management System of 1981 contains the most stringent conflict of interest provisions. TCA §5-21-121 provides:

- (a) The director, purchasing agent, members of the committee, members of the county legislative body or other officials, employees, or members of the board of education or highway commission shall not be financially interested or have any personal beneficial interest, either directly or indirectly, in the purchase of any supplies, materials, equipment or contractual services for the county.
- (b) No firm, corporation, partnership, association or individual furnishing any such supplies, materials, equipment or contractual services, shall give or offer, nor shall the director or purchasing agent or any assistant or employee accept or receive directly or indirectly from any person, firm, corporation, partnership or association to whom any contract may be awarded, by rebate, gift or other otherwise, any money or other things of value whatsoever, or any promise, obligation or contract for future reward or compensation.

Date: 8/5/2026 Name: Indoor Training Solutions

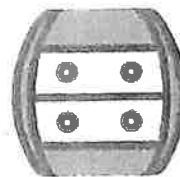
Please describe below any relationships, transactions, positions you hold (volunteer or otherwise), or circumstances that you believe could contribute to a conflict of interest:

X I have no conflict of interest to report.

 I have the following conflict of interest to report (please specify any boards or committees you (and/or your spouse) sit on, the name of your employer and any businesses you or your spouse may own.

I hereby certify that the information set forth above is true and complete to the best of my knowledge.

Date: 8/5/2026 Signature: Lance Vinson



PERSIMMON
DESIGN BUILD

Lance Vinson
Mobile: 1 (731) 431-2012
Lance@persimmondesignbuild.com

Issue Date: 8/4/26
Expiration Date: 30 days from issue
Payment Terms: 50% deposit 8 Weeks prior to
installation, 25% due prior to Shipping or 4 weeks in
advance of install, Balance due at completion

TrackMan IO Simulator

To: Hickman County HS

Powered By



Product	Unit \$	#	Total
TrackMan IO Complete	\$16,100.00	1.00	\$16,100.00
TrackMan IO Simulator Buildout	\$26,995.00	1.00	\$26,995.00
Subtotal			\$43,095.00
Shipping	\$500.00	1.00	\$500.00
Sales Tax (Tax Exempt)			
Travel and Installation	\$1,750.00	1.00	\$1,750.00
Total (pretax)			\$45,345.00



TRACKMAN IO SIM ENVIRONMENT

1. 16"x15' Turf footprint with putting turf
2. 7'4" Deep impact enclosure with padded walls and soft ceiling with integral baffles
3. 12' x 8' Double layer impact screen.
4. 32" Touchscreen
5. Sim Gaming Computer with 5080, 32GB Ram, 1TB SSD, and Liquid cooling.
6. 6200 Lumen Epson
7. Wireless Keyboard and Mouse
8. All mounts for included electronics

CUSTOMER PROVIDED ITEMS

1. Clean Room for Installation
2. Power and switches at specified locations
3. Conduit and Cat 6 to projector, monitor, and IO locations
4. Blocking as specified

Terms and Conditions

I. Warranties

Indoor Training Solutions LLC (hereafter referred to as ITS) warrants that all installation and integration services shall be performed in a first class, workmanlike manner and materials shall be provided free from defects. This warranty shall remain in effect for a period of 90 days from the date of completed installation.

a) Fixtures, equipment, cabling, flooring, netting, screens, and/or electronics not manufactured by ITS, shall be covered only by the original equipment manufacturer's warranty after the initial 90 day period. This list includes, but is not limited to the following items: TV's, Monitors, Touchscreens, Computers, Cameras, Projectors, Sound System, Lights, Screens, Netting, Cage, and Putting Board. Should one of these items fail and be replaced by the manufacturer's warranty, the customer shall be responsible for removing and installing the replacement component(s). Any onsite repair or replacement of goods is subject to a repair/installation charge (including associated travel costs).

b) Normal wear and tear of materials is not covered by this warranty. The impact screen, side walls, ceiling, hitting turf, and other components will show wear (and eventually fail) from repeated impacts. For example, in commercial environments the customer should expect to replace the impact screen every 12 Months.

II. Payment

Buyer shall make a non-refundable, 50% deposit payment to begin the order process. A 25% payment is due prior to shipping components. The balance, remaining 25% payment, is due at completion of installation.

III. Acceptance of Shipments

Simulator shipping costs are based on the customer receiving multiple shipments of assorted components. The Buyer shall be responsible for accepting shipments and storing in a dry protected environment until installation. Buyer shall inspect the outside of packages received and alert ITS of any signs of damage as soon as the packages are received. Execution of this agreement acknowledges acceptance by the buyer of his/her responsibility associated with receiving shipment of the goods.

IV. Title

Buyer agrees that the goods remain the property of ITS until payment is made in full.

V. Installation Completion/Training

Upon completion of the installation, the buyer or a representative of the buyer will need to be present to sign off on satisfactory installation and provide final payment for the balance of the agreement. At this time, the ITS installer can provide a training session on the use of the equipment and its features.

VI. General Limitations of Liability

ITS shall in no event be liable for any loss or damage arising, directly or indirectly, from the use or the use of the goods, including any product liability, and/or for any indirect or consequential loss or damages of any nature whatsoever, including but not limited to loss of profits, loss of interest, loss due to injury or damage, or other losses sustained by the buyer or third parties arising out of the use or inability to use the goods.

ITS's aggregate liability whether in contract, warranty, tort or otherwise, arising out of or connected with the performance or non-performance of any agreement shall in no event exceed the amount paid by the buyer pursuant to the purchase agreement during the 12 months prior to the buyer becoming aware of the basis for a claim towards ITS.

Buyer agrees, to the fullest extent permitted by law, to indemnify ITS and its employees from any cost, injury and damage incurred by, or to any person, or property whatsoever related to the installation and use of the goods.



CUSTOM SIMULATOR PLANS

15' Plans

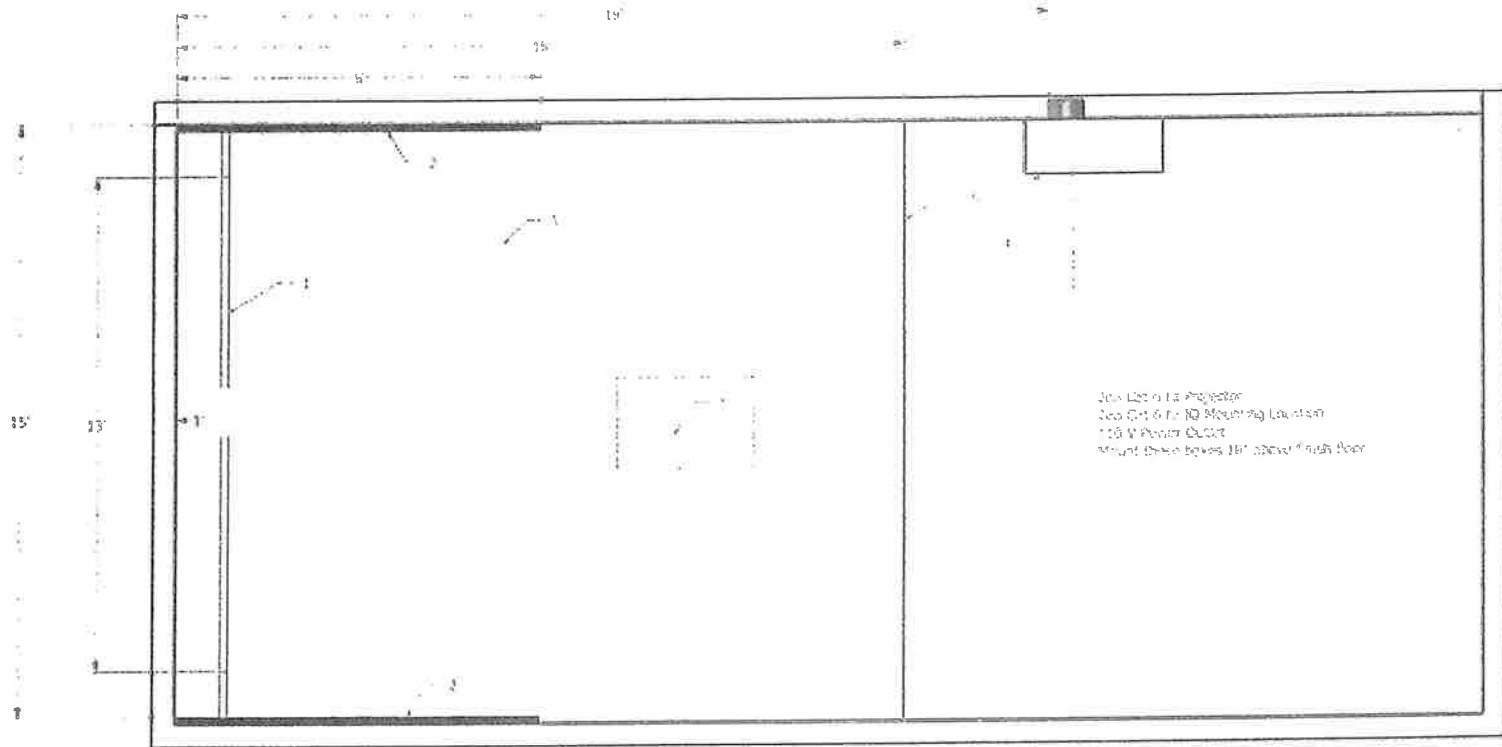
InstallationAddress:

Main contact name:

Email:

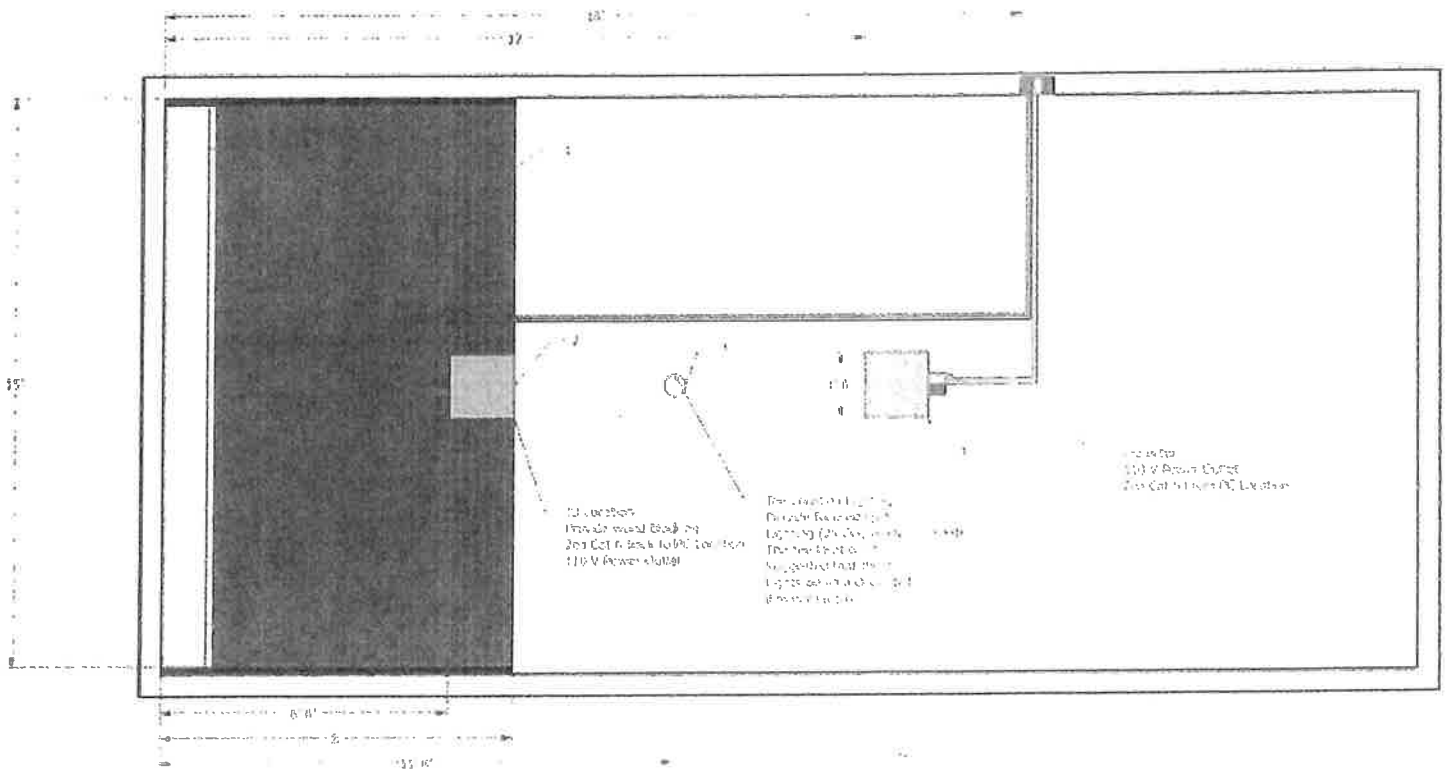
Billing Address:

APPENDIX A: FLOOR PLAN



- 1) Impact Screen by ITS. Projected Image: ~13' x ~9'
- 2) Padded Side Wall protection by ITS. Tee Line
- 3) Hitting Mat
- 4) PC cabinet Location - Please Provide:
 - A. 110 v duplex power outlet plated @ 18" AFF*
 - B. 2ea Cat 6 runs to projector location in ceiling
 - C. 2ea Cat 6 runs to iO Device in ceiling
 - D. 2ea Cat 6 runs to Touchscreen monitor (optional run 2 additional if 2nd monitor)
- 5) Turf
- 6) Turf Transition. Approximately 1 1/8" tall

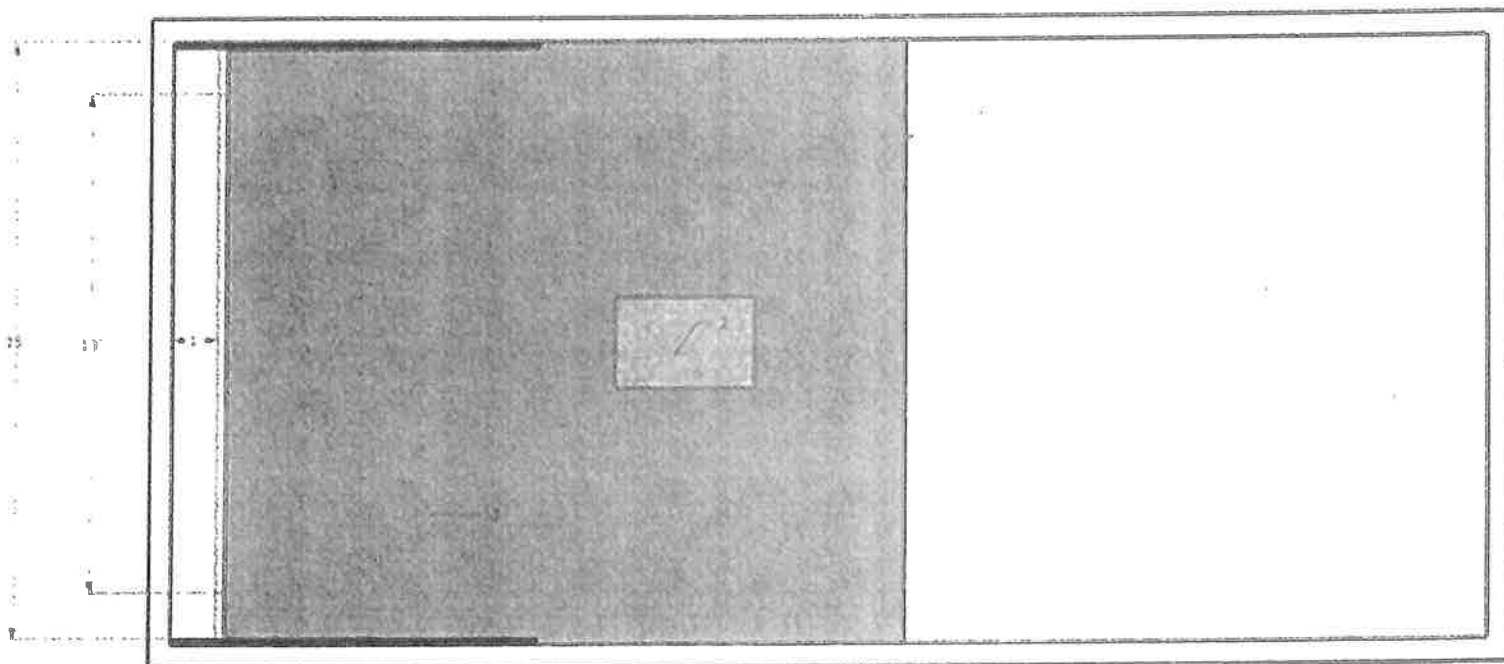
APPENDIX B: CEILING PLAN



- 1) Ceiling Protection Soft surface with baffle for wedge shots
- 2) TrackMan iO Radar: Radar needs to be plugged into nearest outlet so radar can constantly power Please provide: 110v outlet behind radar location 2ea CAT6 for connection to PC
- 3) Please Provide: Recommended lighting over hitting mat location. Suggested 2000 or 3000 Lumen output on a dedicated dimmer switch
- 4) Projector Location (Standard 6200 Lumen) *Please provide:* A. B. C.
18"x18" wood backing installed above finished ceiling 110v duplex power outlet, plated directly behind backing 2ea Cat 6 runs from projector, IO, and monitor to PC location, terminating directly behind backing

All lights, sprinklers, soffits , and fans in the ceiling protection area need to be removed

APPENDIX D: TURF PLAN



1. Floor Transition Edge approximately 1 1/8" High
2. Hitting Mat
3. 5/8" foam underpad applied to sub-floor. Putting turf applied to underpad.
Hitting mat recessed into putting turf and underpad and applied to sub-floor.
This provides flush surface for putting. Total pile height 1 1/8" high

ANY FLOORING TRANSITION IS CLIENT'S RESPONSIBILITY
RECOMMEND REMOVING CARPET FROM TURF FOOTPRINT AREA

Hickman County Government

Conflict of Interest Disclosure Form

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- (a) The director, purchasing agent, members of the committee, members of the county legislative body or other officials, employees, or members of the board of education or highway commission shall not be financially interested or have any personal beneficial interest, either directly or indirectly, in the purchase of any supplies, materials, equipment or contractual services for the county.
- (b) No firm, corporation, partnership, association or individual furnishing any such supplies, materials, equipment or contractual services, shall give or offer, nor shall the director or purchasing agent or any assistant or employee accept or receive directly or indirectly from any person, firm, corporation, partnership or association to whom any contract may be awarded, by rebate, gift or other otherwise, any money or other things of value whatsoever, or any promise, obligation or contract for future reward or compensation.

Date: August 1, 2026

Name: Dr. Erol Kalkan

Please describe below any relationships, transactions, positions you hold (volunteer or otherwise), or circumstances that you believe could contribute to a conflict of interest:

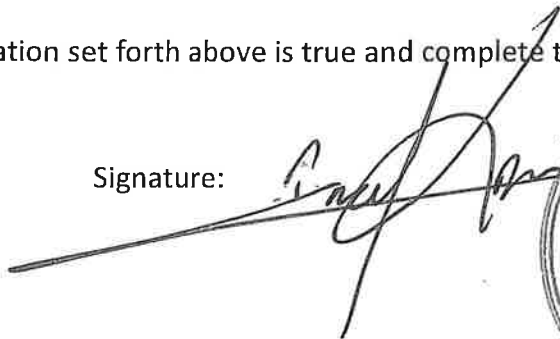
☒ I have no conflict of interest to report.

☐ I have the following conflict of interest to report (please specify any boards or committees you (and/or your spouse) sit on, the name of your employer and any businesses you or your spouse may own.

I hereby certify that the information set forth above is true and complete to the best of my knowledge.

Date: August 1, 2026

Signature:





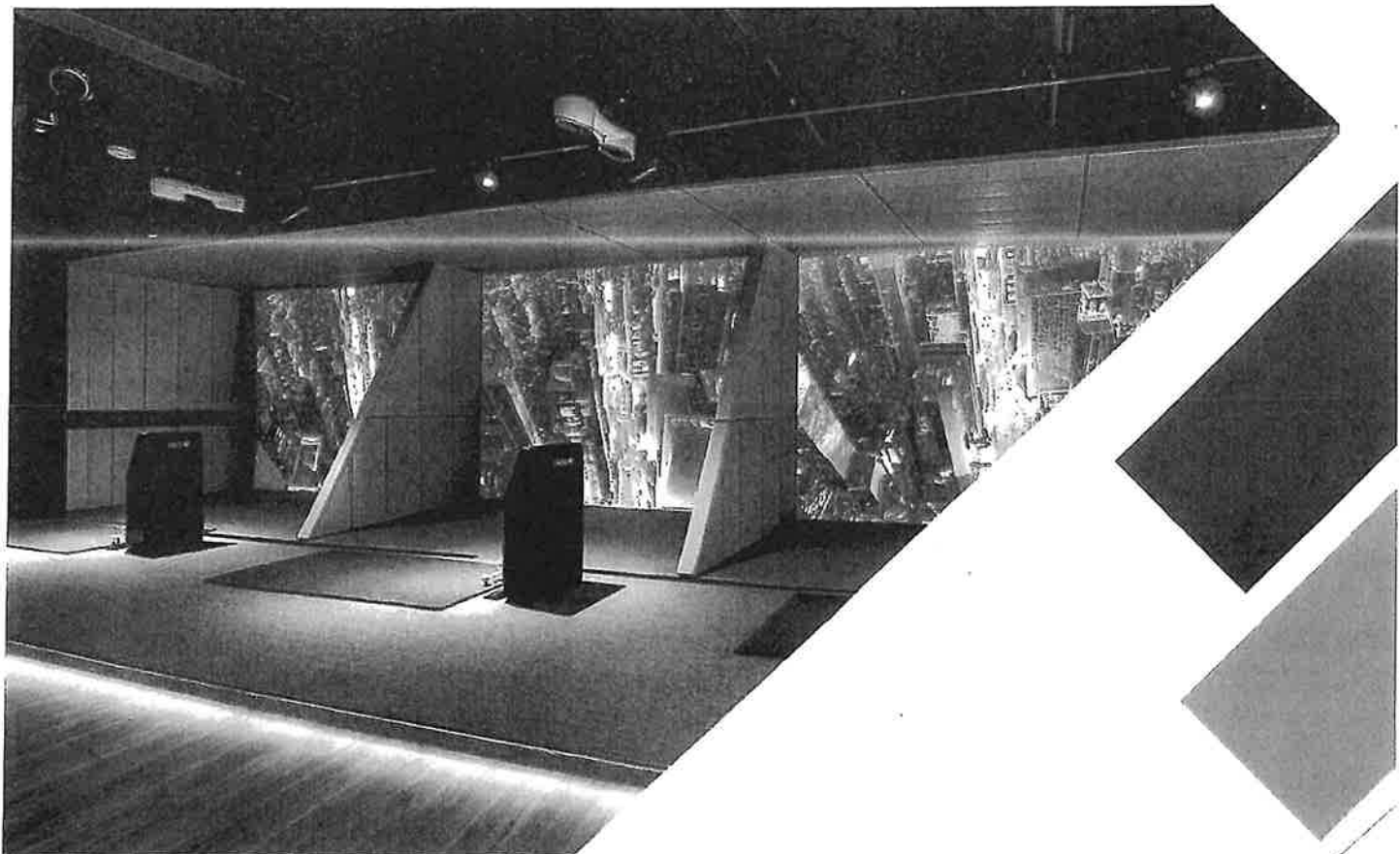

TECHNICAL PROPOSAL

Prepared For

Hickman County Schools
Hickman County High School
Centerville, Tennessee

Submitted By

QuakeLogic Inc.
August 1, 2026





**Hickman County Schools
Hickman County High School
Centerville, Tennessee**

Dear Contracting Officer,

On behalf of QuakeLogic Inc., we are pleased to submit our proposal for the Golf Launch Monitor and Virtual Simulator project for Hickman County High School.

QuakeLogic Inc. proposes one (1) complete QL-GolfSim Professional Indoor Golf Simulation System designed for educational, athletic training, coaching, recreational, and institutional use. The proposed turnkey solution combines ceiling-mounted high-speed optical tracking, AI-assisted trajectory reconstruction, professional golf simulation and performance-analysis software, high-brightness laser projection, a complete impact enclosure, professional hitting surfaces, computing equipment, installation, commissioning, and operator training.

The proposed solution includes:

- One (1) complete QL-GolfSim Professional Indoor Golf Simulation System
- Ceiling-mounted dual 6000 FPS high-speed stereoscopic vision tracking system
- Integrated infrared illumination
- 3D stereoscopic ball and club tracking with AI-assisted trajectory reconstruction
- Real-time ball and club performance measurement and analysis
- Automated optical self-calibration
- AI-assisted coaching analytics, shot-dispersion analysis, swing replay, and performance tracking
- 4K UHD 6000-lumen laser projection system with projector mounting hardware
- Premium impact-resistant projection screen
- Modular enclosure frame with side and ceiling safety panels
- Acoustic and impact-protection components
- Artificial floor turf and professional 3D hitting surface
- Integrated touchscreen control cabinet and high-performance simulation computer
- QL-GolfSim software platform with golf simulation, practice, training, tournament, multiplayer, coaching, and entertainment modes
- Fully automatic tee-up machine with adjustable tee height



- Golf balls, golf clubs, club stand, stereo sound system, control keypad, cabling, and related accessories
- Delivery to Hickman County High School in Centerville, Tennessee
- Complete on-site assembly, installation, configuration, calibration, performance validation, and commissioning
- A minimum of four (4) hours of hands-on operator training for designated Hickman County High School personnel
- One-year full-system warranty and technical support
- Lifetime system software updates and two (2) years of complimentary course-library updates

The anticipated delivery, installation, and commissioning period is 10-14 weeks after receipt of the purchase order, subject to site readiness, confirmation of final room dimensions, and access to the installation area.

Our submission includes the technical proposal, QL-GolfSim product datasheet, commercial offer, delivery and implementation schedule, warranty information, support and maintenance plan, and the required Conflict of Interest Disclosure Form.

QuakeLogic Inc. appreciates the opportunity to submit this proposal and remains available to provide any additional information requested by Hickman County Schools.

Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dr. Erol Kalkan', written over a horizontal line.

Dr. Erol Kalkan, P.E.
Chief Executive Officer
QuakeLogic Inc.



Email: sales@quakelogic.net Phone: +1 (916) 899-0391

SAM UEI: MB76MQ25YNP5 **CAGE:** 8EQM1 **EIN:** 84-2998411

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1. Certifications and Representations

QuakeLogic Inc. hereby certifies that the information provided in this proposal for the Golf Launch Monitor and Virtual Simulator project for Hickman County Schools is true and accurate as of the date of submission.

Company Information

- Company Name: QuakeLogic Inc.
- Business Address: 2008 Opportunity Dr., Suite 130, Roseville, CA 95678
- State of Incorporation: State of California
- Federal Tax Identification Number (EIN): 84-2998411
- SAM UEI: MB76MQ25YNP5
- CAGE Code: 8EQM1
- Primary NAICS Code: 333318 – Other Commercial and Service Industry Machinery Manufacturing

QuakeLogic Inc. further represents and certifies that:

- The company has not been suspended, debarred, or otherwise declared ineligible to participate in any federal, state, or local government procurement program within the United States.
- The company complies with applicable federal, State of Tennessee, and local laws and regulations governing public procurement and the provision of goods and services to public entities.
- This proposal is submitted in response to Hickman County Schools' solicitation for a Golf Launch Monitor and Virtual Simulator for Hickman County High School.
- This proposal is submitted independently and without collusion, consultation, communication, or agreement with any other bidder or competitor for the purpose of restricting competition.

- The pricing offered in this proposal has been developed independently and represents QuakeLogic Inc.'s proposed commercial terms for the equipment, delivery, installation, commissioning, training, warranty, and support described herein.
- QuakeLogic Inc. acknowledges the submission instructions and conditions identified in the solicitation and has included the required Conflict of Interest Disclosure Form with its proposal.
- QuakeLogic Inc. will comply with applicable public procurement, equal opportunity, non-discrimination, and contractual requirements relevant to this project.
- QuakeLogic Inc. understands that proposal materials may be subject to disclosure under applicable Tennessee public-records laws, except for information lawfully protected from disclosure.
- All statements, certifications, warranties, and representations contained in this proposal are true and accurate as of the submission date and will remain valid throughout the proposal evaluation and contract-award process conducted by Hickman County Schools.

2. Executive Summary

QuakeLogic Inc., a California-based engineering and technology company specializing in advanced simulation systems and commercial-grade technical solutions, is pleased to submit this proposal for the Golf Launch Monitor and Virtual Simulator project for Hickman County Schools.

QuakeLogic proposes one (1) complete QL-GolfSim Professional Indoor Golf Simulation System for delivery and installation at Hickman County High School in Centerville, Tennessee. The proposed turnkey solution is designed for athletic training, coaching, education, recreation, and institutional use and combines ceiling-mounted high-speed optical tracking, AI-assisted trajectory reconstruction, high-brightness laser projection, professional golf simulation software, an impact enclosure, safety components, professional hitting surfaces, computing equipment, installation, commissioning, and operator training.

The QL-GolfSim uses dual high-speed stereoscopic vision sensors operating at up to 6000 frames per second to capture ball and club movement in real time. The system applies AI-assisted three-dimensional trajectory reconstruction to calculate and display key performance parameters, including ball speed, launch angle, backspin, sidespin, club-head speed, club path, club-face angle, impact position, carry distance, and total distance.

The sensor system incorporates integrated infrared illumination, three-dimensional stereoscopic physical tracking, real-time processing, and automated optical self-calibration. The ceiling-mounted configuration supports both right-handed and left-handed players without requiring equipment to be positioned behind the player or on the playing surface.

The visual environment is supported by a 4K UHD laser projection system with 6000-lumen brightness, high contrast, and a long-life laser light source. The projection system is paired with a premium impact-resistant screen, a modular enclosure frame, acoustic backing, side and ceiling safety panels, artificial floor turf, a professional 3D hitting surface, and projector mounting hardware.

The proposed system includes an integrated touchscreen control cabinet and a high-performance simulation computer configured with an Intel Core i5-12400 processor or equivalent, NVIDIA RTX 2060 graphics or equivalent, 16 GB DDR4 memory, and a 512 GB solid-state drive.



The QL-GolfSim software platform includes golf simulation, practice and training modes, tournament functionality, multiplayer play, real-time performance analytics, swing replay, AI-assisted coaching analysis, shot-dispersion plots, club-distance mapping, gapping charts, player-performance tracking, and entertainment modes. The system is designed for year-round institutional use.

System Configuration

The proposed QL-GolfSim package includes:

- One (1) complete QL-GolfSim Professional Indoor Golf Simulation System
- Ceiling-mounted dual 6000 FPS high-speed stereoscopic vision tracking system
- Integrated infrared illumination
- AI-assisted three-dimensional ball and club trajectory reconstruction
- Automated optical self-calibration
- Real-time ball and club performance measurement and analysis
- High-performance simulation computer
- Integrated touchscreen control cabinet
- 4K UHD 6000-lumen laser projection system
- Projector mount and required mounting hardware
- Premium impact-resistant projection screen
- Modular enclosure frame and structural components
- Acoustic backing and impact-protection materials
- Side and ceiling safety panels
- Artificial floor turf
- Professional 3D hitting surface with short-grass, rough, and bunker hitting areas

- Fully automatic tee-up machine with adjustable tee height
- Integrated multi-function control panel
- Stereo sound system
- Golf club set
- Club stand
- One hundred (100) golf balls
- Cabling, connectors, and standard system accessories
- QL-GolfSim software platform with simulation, practice, training, tournament, multiplayer, performance-analysis, coaching, and entertainment functions
- Delivery to Hickman County High School in Centerville, Tennessee
- Complete on-site assembly and installation of the supplied simulator system
- Hardware and software configuration
- Sensor and projector calibration
- Performance validation, commissioning, and operational testing
- A minimum of four (4) hours of hands-on operator training for designated personnel
- One-year full-system warranty
- Technical support and troubleshooting
- Lifetime online system software updates
- Two (2) years of complimentary course-library updates

The dimensions of the impact screen, enclosure, safety panels, hitting surface, and artificial turf will be finalized based on the approved site drawings and verified room dimensions.

Key Benefits to Hickman County High School

The proposed solution will provide:

- A complete professional indoor golf launch-monitor and virtual-simulation system
- Year-round golf practice, athletic training, coaching, and recreational capability
- Real-time ball and club performance measurement
- Support for both right-handed and left-handed players
- Ceiling-mounted high-speed optical tracking
- Integrated infrared illumination
- AI-assisted trajectory reconstruction and coaching analytics
- Shot-dispersion analysis, swing replay, and performance tracking
- Immersive high-brightness 4K laser projection
- A professional impact screen, enclosure, safety-panel, and flooring system
- Practice, training, tournament, multiplayer, and entertainment modes
- Integrated touchscreen control and performance-data display
- Fully automatic tee-up capability
- Complete on-site installation, configuration, calibration, and commissioning
- Hands-on training for selected Hickman County High School personnel
- One-year warranty and technical support
- Long-term system software update support

Support and Warranty

QuakeLogic's proposed support and maintenance package includes:

- One (1) year full-system warranty covering defects in materials and workmanship under normal indoor institutional use
- Technical support and troubleshooting by email, chat, telephone, and video assistance
- Support for hardware, software, calibration, and system-operation issues
- Pre-shipment system configuration, testing, and calibration
- On-site installation, setup, configuration, and commissioning
- Software support during the warranty period
- Lifetime online system software updates
- Two (2) years of complimentary course-library updates
- Digital operating instructions and technical documentation
- Preventive-maintenance and calibration guidance
- Replacement-part coordination and warranty-service assistance
- Optional annual or semiannual inspection and calibration services
- Continued technical support options following expiration of the standard warranty

Any optional post-warranty maintenance, inspection, calibration, or extended-support services will be quoted separately upon request.

Delivery and Implementation

The proposed scope includes:

- Coordinated production, shipment, and delivery of one (1) complete QL-GolfSim system to Hickman County High School in Centerville, Tennessee

- Delivery of the equipment, accessories, enclosure components, safety materials, software, and mounting hardware described in this proposal
- Customization of the impact screen, enclosure, safety panels, hitting surface, and floor turf based on approved site drawings and verified dimensions
- Pre-shipment assembly, configuration, testing, and calibration of the simulator hardware and software
- Complete on-site assembly and installation of the supplied enclosure, screen, sensors, projector, computing equipment, hitting surfaces, and related accessories
- Software installation and system configuration
- Sensor and projector calibration
- Performance validation and operational acceptance testing
- A minimum of four (4) hours of hands-on operator training
- Warranty documentation, operating instructions, and technical-support information

The anticipated delivery, installation, and commissioning period is **10–14 weeks after receipt of the purchase order**, subject to timely approval of final site dimensions, site readiness, and access to the installation area.

The proposed scope includes installation of the complete simulator system supplied by QuakeLogic. Major building modifications, new electrical circuits, structural reinforcement, permitting, and other unrelated site-construction work are not included unless specifically identified and added to the commercial offer.

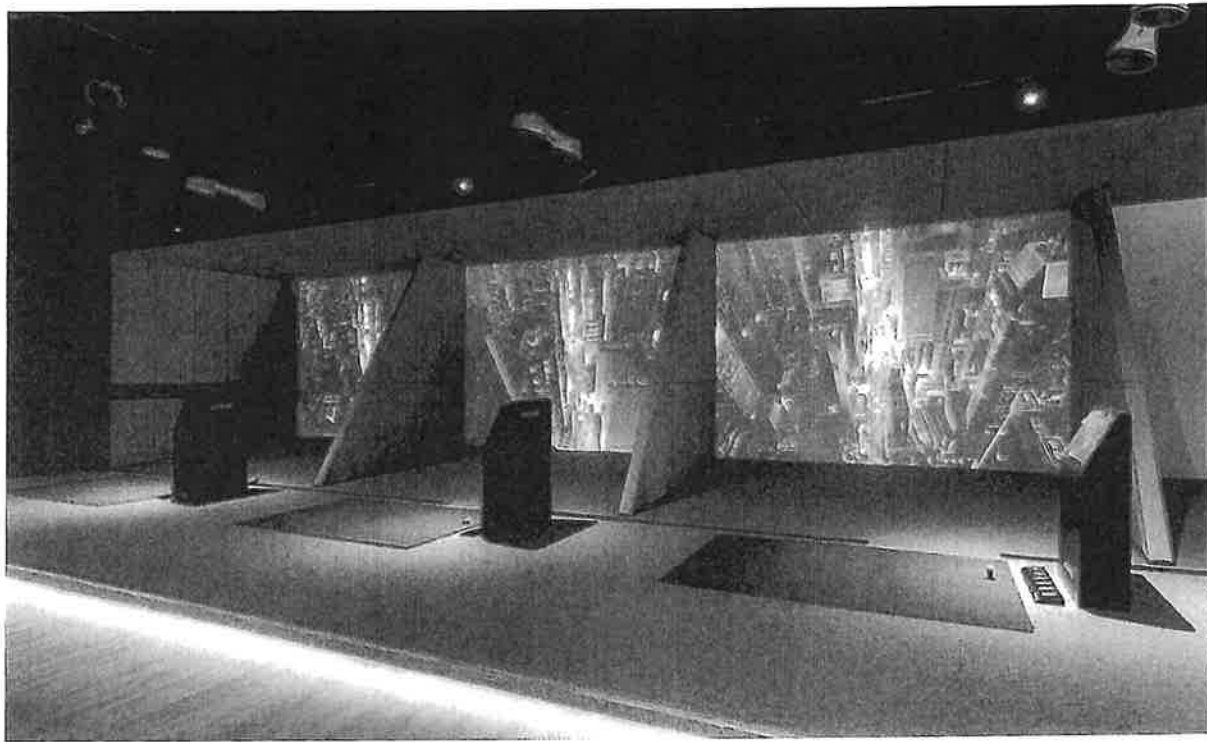


Figure 1. QL-GolfSim Professional Indoor Golf Simulation System

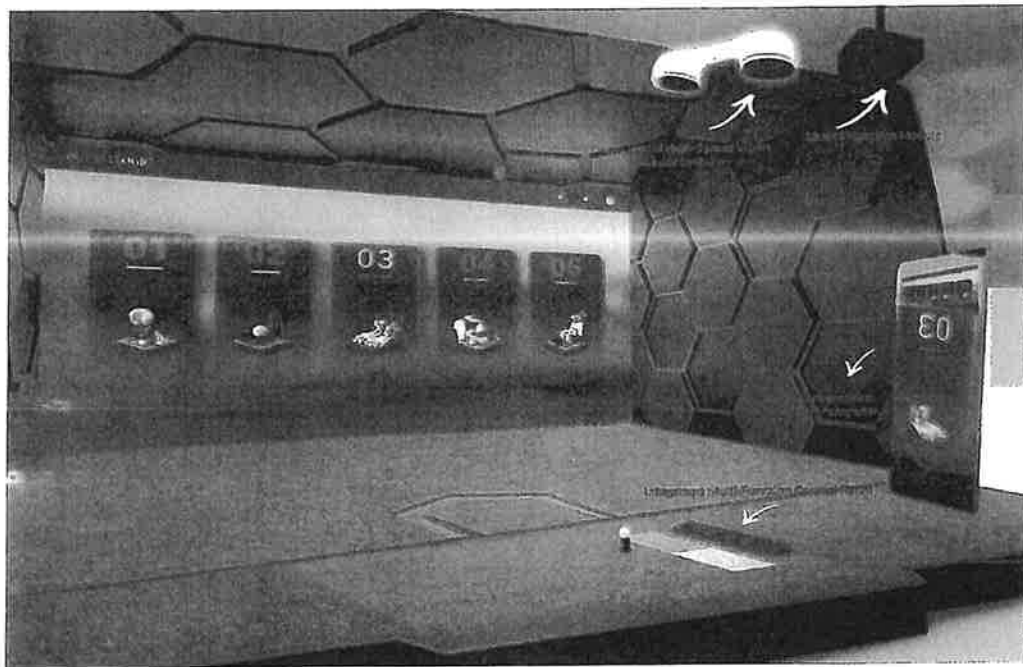


Figure 2. QL-GolfSim System Architecture Overview

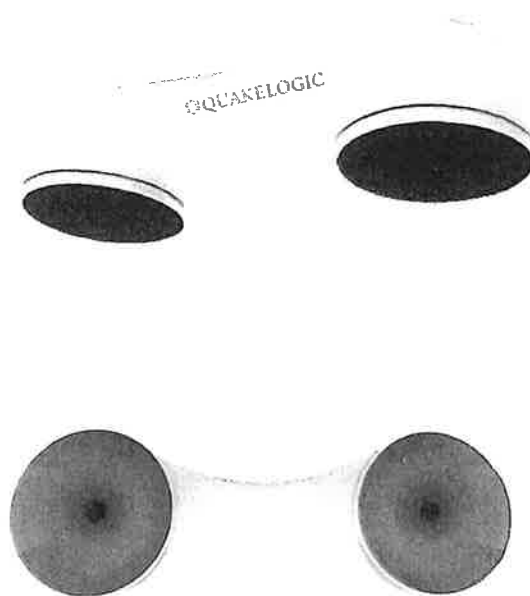


Figure 3. Dual Optical High-Speed Vision Sensor System

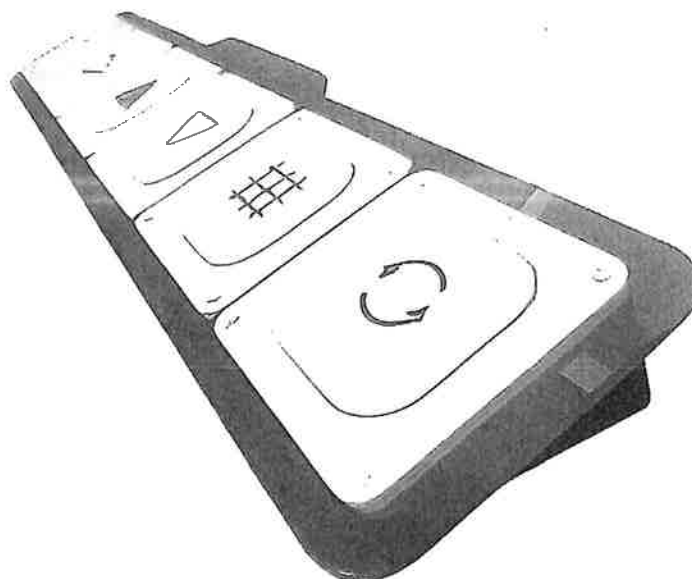


Figure 4. Integrated Multi-Function Control Panel

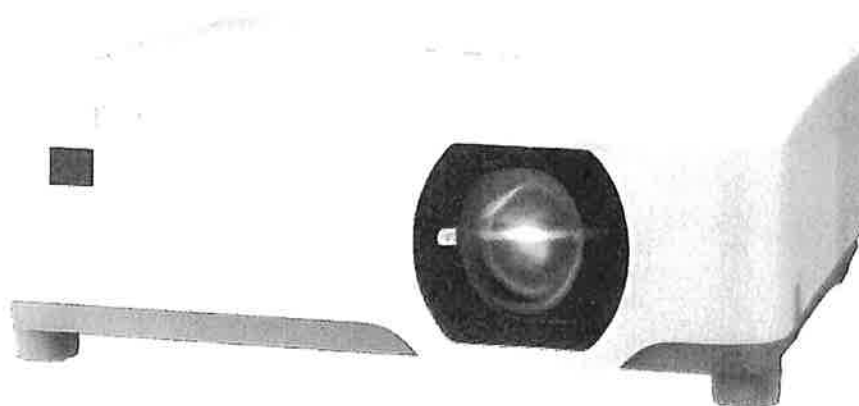


Figure 5. 4K Projection Module



Figure 6. QL-GolfSim Software Interface – Example In-Game Course View

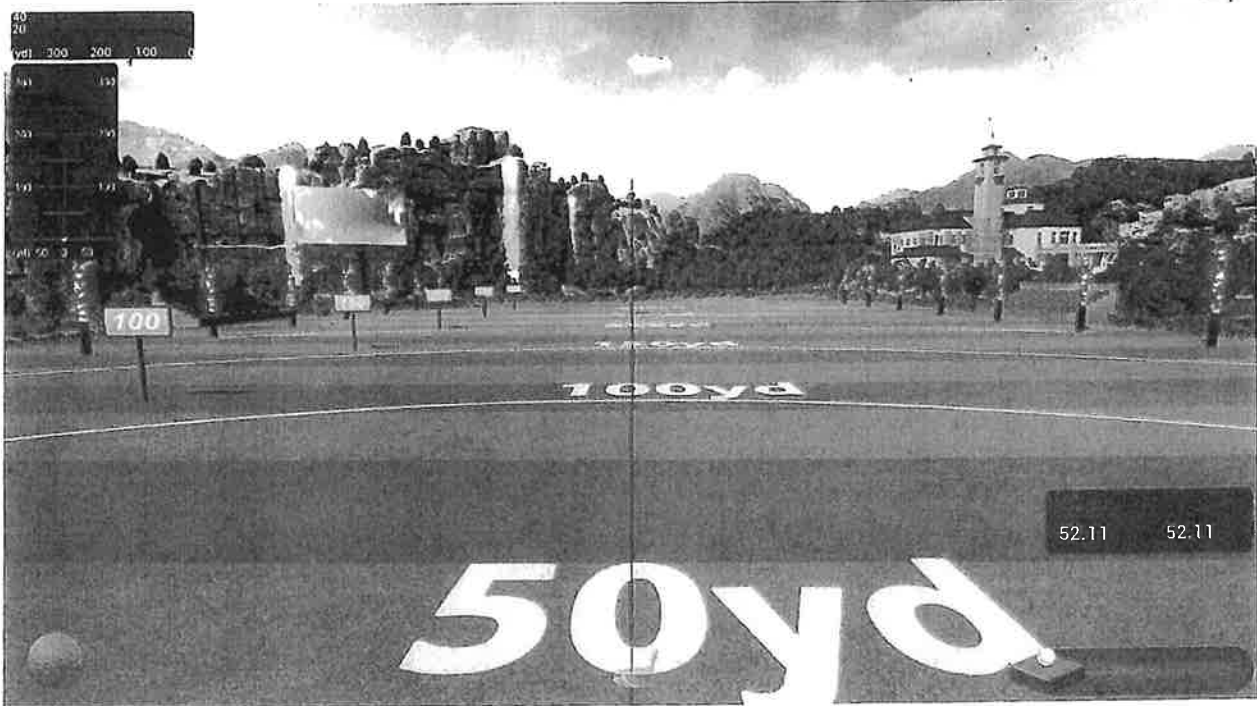


Figure 7. QL-GolfSim Practice Mode – Driving Range & Distance Analytics View

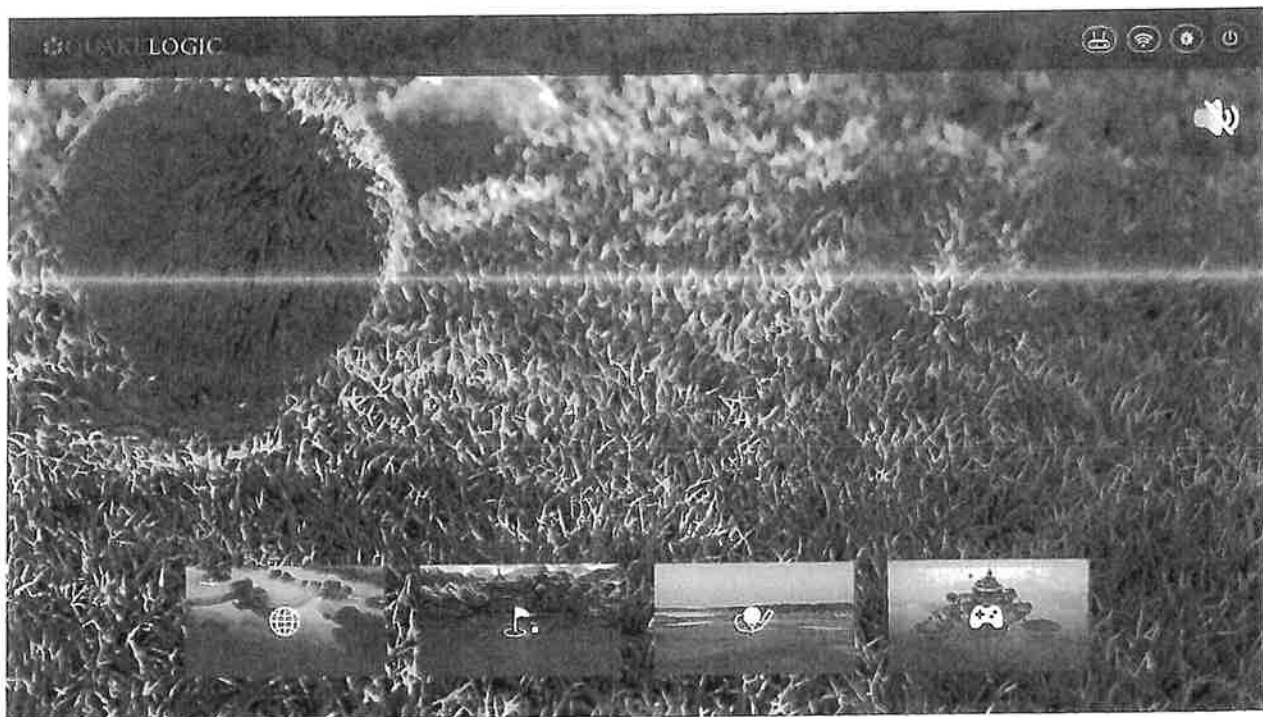


Figure 8. QL-GolfSim User Interface – Main Menu Overview

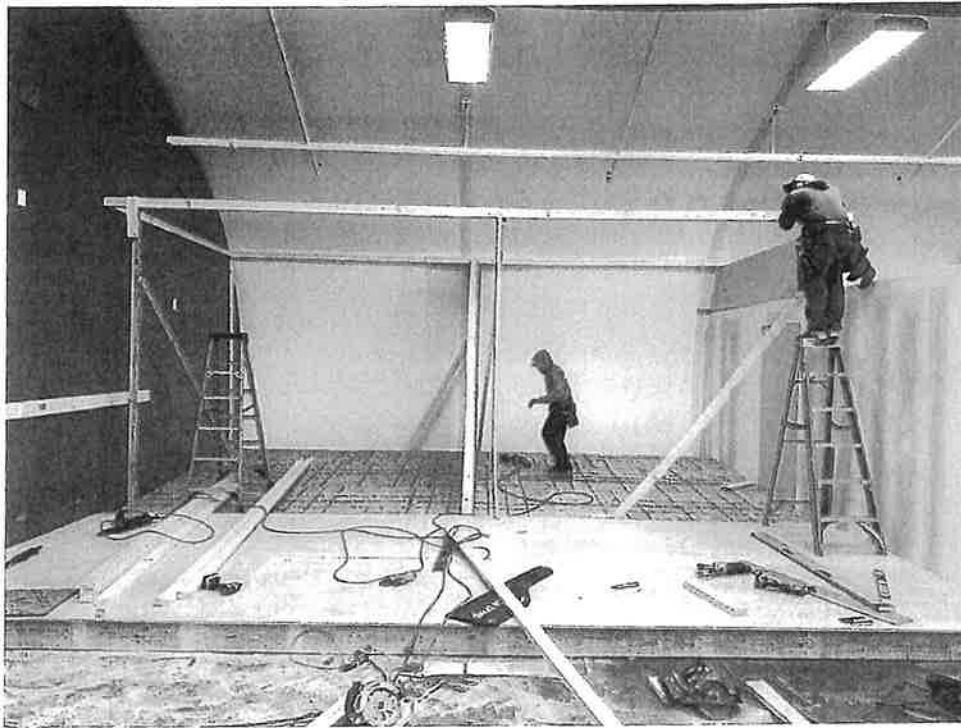


Figure 9. QL-GolfSim Platform Construction at North Carolina A&T University by QuakeLogic Team.

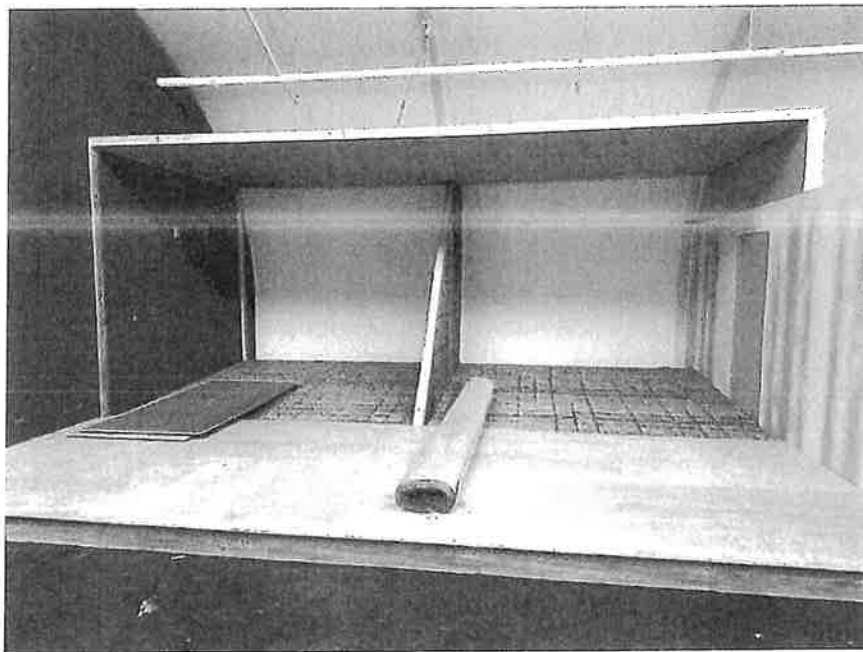


Figure 10. Existing Interior Space Prepared for Golf Simulator Installation.

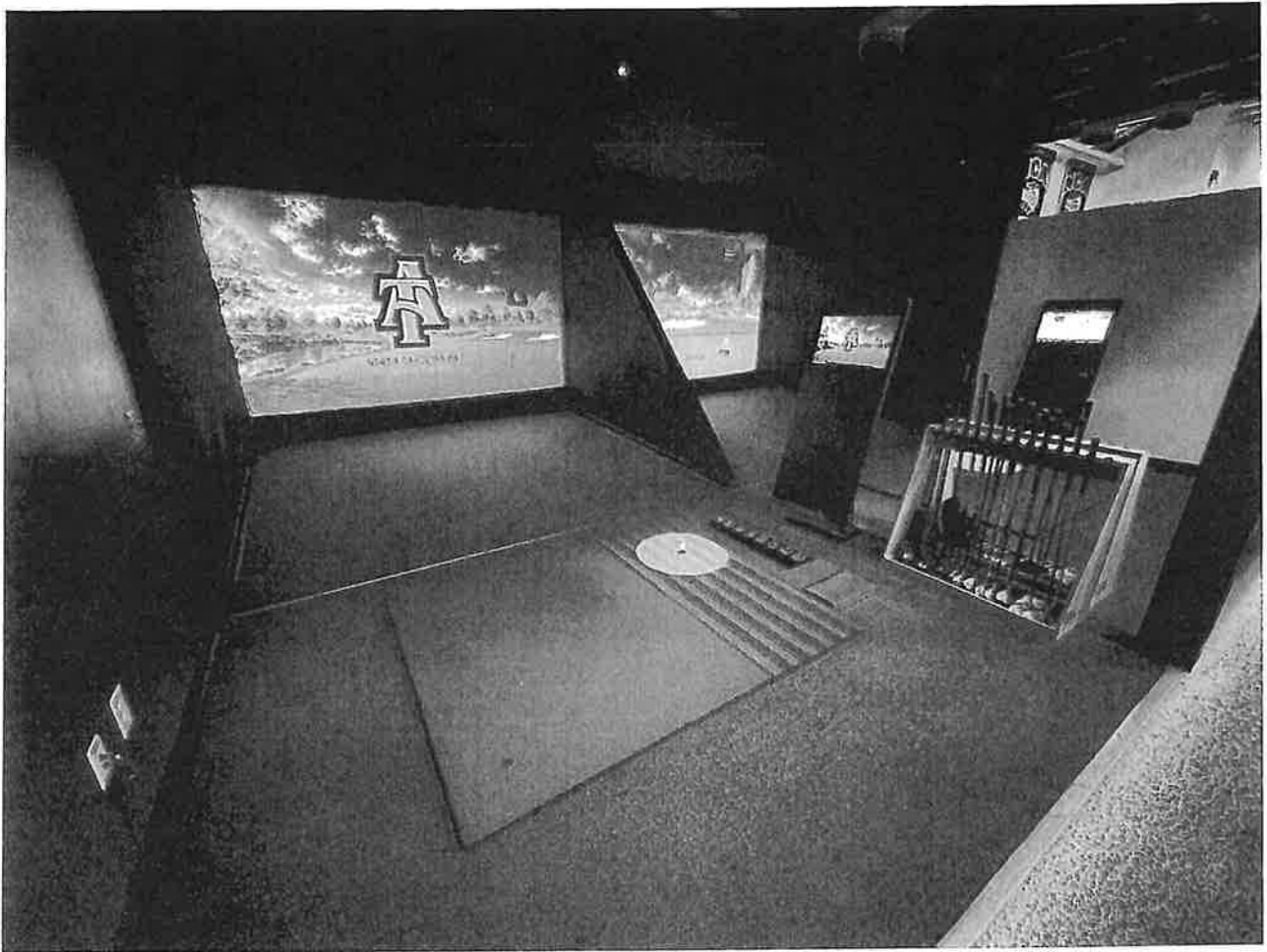


Figure 11. Completed QL-GolfSim indoor golf simulator system installed at North Carolina A&T State University, showing the finished hitting bay, projection screen, control interface, and player area.



Figure 12. Completed QL-GolfSim indoor golf simulator system installed at North Carolina A&T State University, showing the practice area.

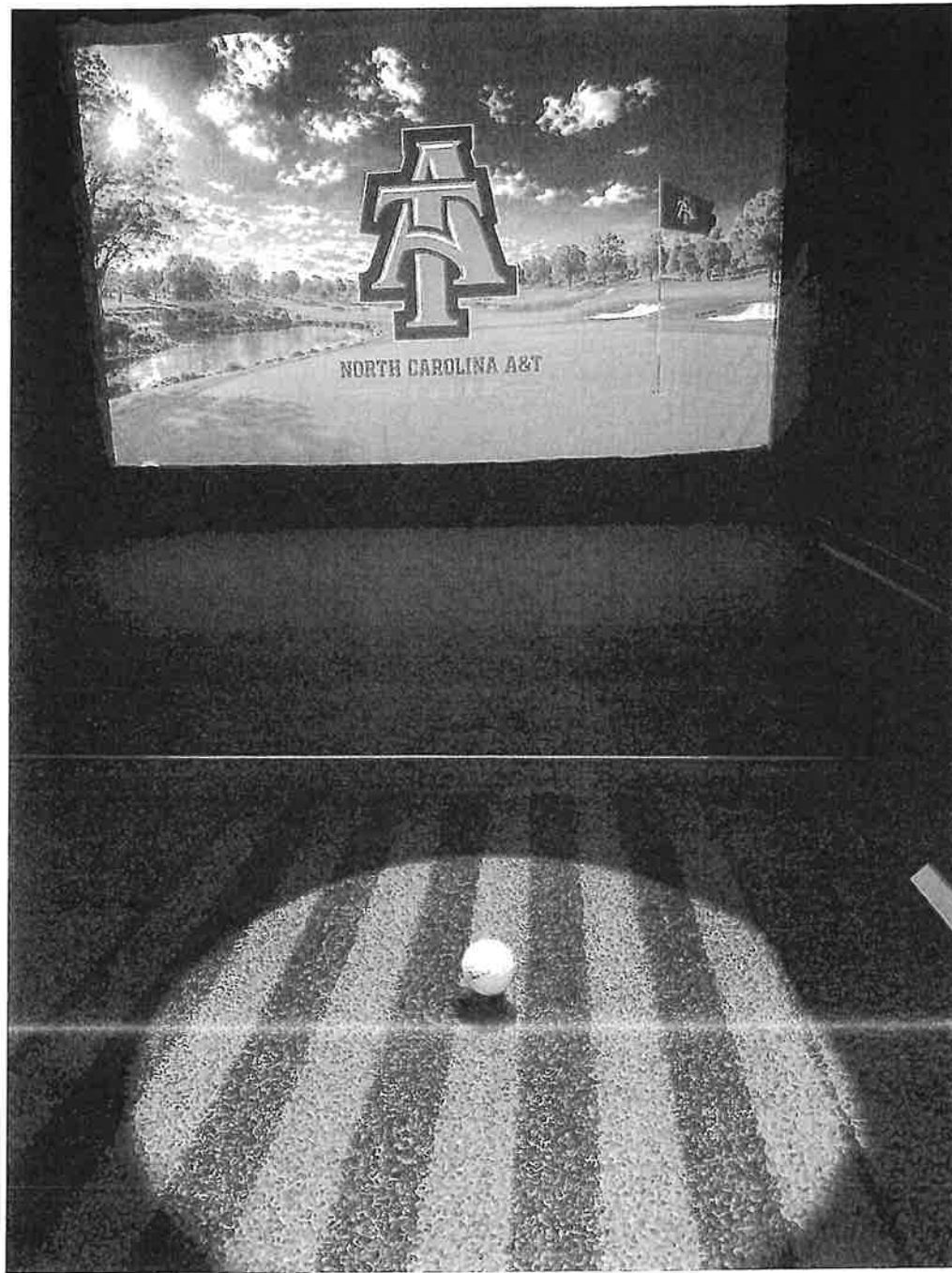


Figure 13. Completed QL-GolfSim hitting bay at North Carolina A&T State University, showing the integrated hitting surface, automatic tee-up position, and high-brightness 4K projection screen with a custom background image.

3. Compliance Matrix

The summary below presents the principal functional, equipment, installation, delivery, and support elements included in QuakeLogic Inc.'s proposed QL-GolfSim Professional Indoor Golf Simulation System for Hickman County Schools' Golf Launch Monitor and Virtual Simulator project.

No.	Requirement Area	QL-GolfSim Response	Status
1	Complete Simulator System	QuakeLogic will provide one (1) complete QL-GolfSim Professional Indoor Golf Simulation System, including the launch-monitor sensor system, simulation computer, touchscreen control interface, projection system, software, impact enclosure, hitting surfaces, accessories, installation, commissioning, and operator training.	Included
2	Launch-Monitor Tracking System	The proposed system includes a ceiling-mounted dual high-speed stereoscopic vision sensor system operating at up to 6000 frames per second. The sensor incorporates integrated infrared illumination and real-time three-dimensional physical tracking with AI-assisted motion reconstruction.	Meets
3	Ball and Club Performance Data	The QL-GolfSim measures and displays ball speed, launch angle, backspin, sidespin, club-head speed, club path, club-face angle, impact position, carry distance, and total distance. Results are processed and displayed in real time.	Meets
4	Calibration and System Readiness	The tracking system includes automated optical self-calibration. Final sensor positioning, calibration, testing, and performance validation will be completed during system installation and commissioning.	Included

5	Coaching and Performance Analytics	The software platform includes AI-assisted coaching analysis, shot-dispersion plots, club-path and club-face analysis, impact-point analysis, club-distance mapping, gapping charts, swing replay, and player-performance tracking.	Included
6	Projection System	The proposed system includes a 4K UHD laser projection system with 6000-lumen brightness, high contrast, a long-life laser light source, and the required projector mounting hardware. The final projector and mounting configuration will be coordinated based on the approved room dimensions and installation layout.	Meets
7	Impact Screen	Includes a premium impact-resistant projection screen designed for clear image display, repeated golf-ball impact, reduced noise, wear resistance, and long-term indoor institutional use. Final dimensions will be customized based on the verified room dimensions.	Meets
8	Enclosure and Safety Protection	Includes a modular frame structure, acoustic backing, impact-protection materials, and side and ceiling safety panels. The enclosure configuration will be finalized based on the approved site layout and room dimensions.	Included
9	Turf and Hitting Surface	Includes artificial floor turf and a professional 3D hitting surface with short-grass, rough, and bunker hitting areas. Final turf and hitting-area dimensions will be customized for the installation location.	Included
10	Computer and Control Interface	Includes an integrated touchscreen control cabinet and a high-performance simulation computer configured with an Intel Core i5-12400 processor or equivalent, NVIDIA RTX 2060 graphics or equivalent, 16 GB DDR4	Included

		memory, 512 GB solid-state storage, and Windows 11 Professional.	
11	Simulation Software	Includes the QL-GolfSim software platform with golf simulation, practice and training modes, tournament functionality, multiplayer play, real-time performance analytics, swing replay, player-data management, coaching tools, and entertainment modes.	Included
12	Accessories	Includes a fully automatic tee-up machine with adjustable tee height, multi-function control panel, stereo sound system, golf club set, club stand, one hundred (100) golf balls, cabling, connectors, and standard operating accessories.	Included
13	Installation and Commissioning	QuakeLogic will provide complete on-site assembly and installation of the supplied simulator equipment, hardware and software configuration, sensor and projector calibration, performance validation, operational testing, and final commissioning.	Included
14	Operator Training	Includes a minimum of four (4) hours of hands-on operator training for designated Hickman County High School personnel following installation and commissioning.	Included
15	Delivery	Includes coordinated production, shipment, and delivery of one (1) complete QL-GolfSim system to Hickman County High School in Centerville, Tennessee. Delivery and related charges are identified in the Commercial Offer.	Included
16	Delivery Schedule	The anticipated delivery, installation, and commissioning period is 10–14 weeks after receipt of the purchase order, subject to site readiness, approval of final room dimensions, and access to the installation area.	Confirmed

17	Warranty and Technical Support	Includes a one-year system warranty, remote technical support through email, chat, and video assistance, software support, technical documentation, lifetime online system software updates, and two (2) years of complimentary course-library updates.	Included
18	Maintenance and Lifecycle Support	Preventive-maintenance guidance, calibration support, replacement-part coordination, and optional annual or semiannual inspection and calibration services are available to support long-term system operation.	Available

Conclusion

QuakeLogic Inc.'s proposed QL-GolfSim Professional Indoor Golf Simulation System provides Hickman County High School with a complete turnkey indoor golf training, coaching, and virtual-simulation environment.

The proposed package includes the high-speed optical tracking system, ball and club performance analytics, AI-assisted coaching tools, high-brightness laser projection, professional impact screen and enclosure, safety protection, artificial turf, professional hitting surfaces, computing and control equipment, simulator software, accessories, delivery, on-site installation, commissioning, operator training, warranty, and technical support.

The final enclosure, impact screen, safety-panel, hitting-surface, turf, projector, and mounting configurations will be coordinated based on the verified room dimensions and approved installation layout.

4. Delivery and Warranty

Delivery Location

QuakeLogic Inc. will coordinate delivery of one (1) complete QL-GolfSim Professional Indoor Golf Simulation System as follows:

Facility	Location	Quantity
Hickman County High School	Centerville, Tennessee	1 unit

Final delivery and receiving arrangements will be coordinated with Hickman County Schools' authorized representative.

Delivery Schedule

The anticipated delivery, installation, and commissioning period is 10–14 weeks after receipt of the purchase order.

The schedule is subject to timely approval of final room dimensions, site readiness, customization of the enclosure and flooring components, and normal transportation conditions.

Delivery and Installation Scope

The proposed scope includes:

- Shipment and delivery of one (1) complete QL-GolfSim system
- High-speed optical tracking system, simulation computer, touchscreen control cabinet, projector, software, and accessories
- Impact screen, modular enclosure frame, acoustic and safety panels
- Artificial floor turf and professional 3D hitting surface
- Projector mount, automatic tee-up machine, golf balls, golf clubs, club stand, sound system, cabling, and standard accessories
- Pre-shipment configuration, calibration, and functional testing

- Complete on-site assembly, installation, system configuration, and commissioning
- Performance validation and operational testing
- A minimum of four (4) hours of hands-on operator training
- Digital operating instructions and technical documentation

Final screen, enclosure, safety-panel, and turf dimensions will be based on the approved site drawings and verified room dimensions.

Major building renovations, new electrical circuits, structural modifications, permitting, and unrelated site-construction work are not included unless specifically stated in the Commercial Offer.

Warranty and Support

QuakeLogic Inc. provides a one (1) year system warranty covering the supplied components under normal indoor institutional use.

Warranty coverage includes the tracking system, simulation computer, touchscreen control cabinet, projection system, impact screen, automatic tee-up machine, control panel, sound system, cabling, and other components supplied under the final contract.

During the warranty period, QuakeLogic will provide:

- Technical support and troubleshooting
- Hardware and software assistance
- Remote configuration and calibration support
- Digital operating and technical documentation
- Applicable system software updates
- Warranty-service and replacement-part coordination



The system also includes lifetime online system software updates and two (2) years of complimentary course-library updates. Optional post-warranty maintenance, calibration, and support services may be quoted separately.

5. Accessibility Statement

QuakeLogic Inc. recognizes the importance of safe, practical, and user-friendly access within educational facilities. The proposed QL-GolfSim Professional Indoor Golf Simulation System can be configured to support an accessible simulator area based on the verified room dimensions, approved installation layout, and existing site conditions at Hickman County High School.

The proposed system includes artificial floor turf, a professional hitting surface, an integrated touchscreen control cabinet, and clearly defined operating areas. Final component placement and operating clearances will be coordinated during site planning and installation.

The QL-GolfSim user interface provides:

- Touchscreen-based system control
- Clear display of shot and performance data
- Guided software navigation
- Integrated operating controls
- Digital operating instructions and technical documentation

During installation, QuakeLogic will coordinate the placement of the touchscreen, hitting area, equipment, and operating clearances with Hickman County Schools' authorized representative.

Facility-level accessibility requirements, including doorway clearance, circulation paths, floor transitions, electrical access, and building modifications, remain subject to the existing site conditions and any owner-provided construction or renovation work.

6. Qualifications

QuakeLogic Inc. is a California-based engineering and technology company specializing in advanced simulation systems, training platforms, and commercial-grade technical equipment for educational institutions, public agencies, commercial facilities, and government-related organizations.

QuakeLogic provides integrated solutions combining simulation hardware, software, system configuration, installation coordination, technical documentation, warranty administration, and lifecycle support. The company has experience supporting simulator projects requiring equipment integration, delivery planning, on-site implementation, user training, troubleshooting, and long-term operational assistance.

Core Capabilities

QuakeLogic Inc.'s project-relevant capabilities include:

- Integration of simulator hardware, optical tracking systems, projection systems, computing platforms, and software
- Configuration of high-performance simulation computers and visual-display systems
- Coordination of impact screens, enclosure frames, safety panels, turf, hitting surfaces, and projector-mounting components
- Pre-shipment system configuration, calibration, and functional testing
- Domestic and international logistics coordination
- On-site assembly, installation, configuration, and commissioning
- Performance validation and operator training
- Preparation of technical proposals, operating instructions, and support documentation
- Warranty administration, troubleshooting, software updates, replacement-part coordination, and lifecycle support

Project-Relevant Expertise

For Hickman County Schools' Golf Launch Monitor and Virtual Simulator project, QuakeLogic proposes the QL-GolfSim Professional Indoor Golf Simulation System as a complete turnkey indoor golf training and performance-analysis solution.

The proposed system integrates:

- Ceiling-mounted dual 6000 FPS high-speed stereoscopic vision tracking
- Integrated infrared illumination
- AI-assisted three-dimensional ball and club trajectory reconstruction
- Real-time ball and club performance measurement
- Automated optical self-calibration
- AI-assisted coaching analysis, shot-dispersion plots, swing replay, and performance tracking
- 4K UHD 6000-lumen laser projection
- Premium impact-resistant projection screen
- Modular enclosure frame with acoustic and safety-protection components
- Artificial floor turf and professional 3D hitting surface
- Integrated touchscreen control cabinet and high-performance simulation computer
- Projector mount and related mounting hardware
- Fully automatic tee-up machine with adjustable tee height
- Golf simulation, practice, training, tournament, multiplayer, coaching, and entertainment software functions
- Delivery, on-site installation, configuration, commissioning, operator training, warranty, and technical support



QuakeLogic Inc. has the technical, logistical, and organizational capability to supply, deliver, install, and commission the one (1) complete QL-GolfSim system proposed for Hickman County High School. QuakeLogic will coordinate final system dimensions, production, shipment, site access, installation, training, and receiving arrangements with Hickman County Schools' authorized representative and will provide warranty and technical support following system acceptance.

7. Commercial Offer

Solicitation Title: Hickman County Schools – Golf Launch Monitor and Virtual Simulator

Submitted by: QuakeLogic Inc.

Date: August 1, 2026

Item No.	Description	Qty.	Unit Price (USD)	Total (USD)
1	QL-GolfSim Professional Indoor Golf Simulation System , including high-speed stereoscopic optical tracking, integrated infrared illumination, simulation computer and monitor, touchscreen control cabinet, laser projector and mount, impact screen, modular enclosure with safety buffers, hitting strip, surrounding turf, simulation software, automatic tee-up machine, golf accessories, sound system, cabling, and standard accessories.	1	\$45,490	\$45,490
2	Delivery, Handling, and Coordination to Hickman County High School, Centerville, Tennessee.	1	\$1,000	\$1,000
3	Complete Turnkey On-Site Installation and Setup , including enclosure and equipment installation, software configuration, calibration, operational testing, and commissioning.	1	\$15,000	\$15,000
4	On-Site Personnel Training , including system operation, software use, calibration, and basic troubleshooting for selected personnel.	1	\$1,000	\$1,000

TOTAL FIRM-FIXED PRICE – COMPLETE TURNKEY SYSTEM: \$62,490

Warranty & Support

QuakeLogic Inc. provides a one (1) year limited warranty for the proposed QL-GolfSim system, covering defects in materials and workmanship under normal indoor institutional use.

During the warranty period, QuakeLogic will provide technical support, troubleshooting assistance, software support, calibration guidance, and digital operating documentation. The system also includes lifetime online system software updates and two (2) years of complimentary course-library updates.

Delivery

Delivery Location: Hickman County High School, Centerville, Tennessee
Quantity: One (1) complete system

The anticipated delivery, installation, and commissioning period is 10–14 weeks after receipt of the purchase order, subject to site readiness, approval of final room dimensions, and normal transportation conditions.

The proposed price includes delivery of the complete system, on-site installation of the enclosure, hardware and software, system configuration, calibration, setup, commissioning, operational testing, and training for selected Hickman County High School personnel.

8. Recent Projects

QuakeLogic has successfully completed multiple projects involving the supply and installation of advanced simulators, testing machines, equipment, and monitoring systems:

List of Featured Clients in the US

1. Aalo Atomics
2. Anchorage School District (Alaska)
3. Arizona State University
4. Ardagh Group
5. Arkansas Department of Public Safety
6. ASIR Seismic
7. Aurora Quest K-8
8. Ball Manufacturing
9. BDI
10. Benchmark Space Systems
11. Caltech
12. California Department of Water Resources
13. Central Washington University
14. CHI Engineering Services Inc.
15. Circle the Globe Productions
16. City of Anaheim
17. CMAG Engineering, Inc.
18. Coach Glass
19. Consolidated Electrical Distributors
20. Cooper Union University
21. Colorado State University
22. Cornell University
23. Costa Mesa High School
24. CrunchLabs LLC
25. CubicPV
26. Cummins Inc.
27. Desert Research Institute
28. Droplet Measurement Technologies LLC
29. DTS Electric

30. Dynamic Isolation Systems
31. Engineered Equipment
32. Ensoft Inc.
33. EV Charge Solutions
34. Five Points Correctional Facility
35. Florida International University
36. Florida Polytechnic University
37. Florida State University
38. GeoComp Inc.
39. Georgia Southern University
40. Georgia Tech
41. Greater New Bedford Regional Vocational Technical High School District
42. GRI
43. Haley & Aldrich Inc.
44. Hamilton Community Schools
45. Harvard University
46. Harvest Midstream
47. Harvest Petroleum Corporation
48. Health Services
49. Helix Electric
50. High Point University
51. HMR Solutions Inc.
52. Hope College
53. Hydro2Geotech
54. IER World
55. Ingram School of Engineering, Texas State University
56. iSystems
57. Jackson State University
58. JMG Technology
59. Kennesaw State University
60. Kiewit Infrastructure West
61. Lakeside School
62. Lehigh University
63. Los Angeles County
64. Louisiana State University
65. Marathon Petroleum Corporation
66. Marvel Electronics

67. Metropolitan Acoustic
68. Missouri University of Science and Technology
69. Monroe County Controller
70. Moser Services Group, LLC
71. Mountain View Middle School
72. M. Torres America Inc.
73. Nevada Department of Transportation
74. New Mexico Tech University
75. Nokia
76. North Carolina Agricultural and Technical State University
77. North Carolina Central University
78. OEG, Inc. (an Everus Company)
79. Ohio Department of Youth Services
80. Oregon State University
81. Park Avenue Apartments
82. Pennsylvania Department of Corrections
83. RELLIS Academic Alliance
84. Rondo Energy, Inc.
85. Rowan University
86. Santa Monica College
87. Seattle University
88. Sidi Corp Home LLC
89. Signal Solutions USA LLC
90. Smythe Academy of Arts and Science
91. Sonoco
92. South Texas College
93. Southland Industries
94. Southern Illinois University
95. Southern Utah University
96. SSI
97. St. Ann School
98. St. Thomas High School
99. Stevens Institute of Technology
100. Sumner School District of Tennessee
101. Tesoro Alaska Company, LLC
102. Texas A&M University
103. The University of Alabama in Huntsville

104. The University of Texas at Arlington
105. The University of Texas at Austin
106. The University of Texas Rio Grande Valley
107. United States Geological Survey (USGS)
108. University of California, Berkeley
109. University of California, Merced
110. University of California, San Diego
111. University of Houston
112. University of Missouri
113. University of Nevada, Las Vegas
114. University of Nevada, Reno
115. University of New Hampshire
116. University of North Dakota
117. University of Utah
118. University of Washington
119. U.S. Air Force
120. U.S. National Park Service
121. U.S. Navy
122. U.S. Space Force
123. Utility.com
124. Yale University
125. Virginia Tech

A comprehensive list of QuakeLogic's clients across more than 25 countries—including universities, businesses, and government agencies—can be found at:

- https://quakelogic.net/GOV/QuakeLogic_narrative_capability.pdf
- <https://products.quakelogic.net/references/>

9. Technical Support After Warranty Period



Following expiration of the one-year warranty period, QuakeLogic Inc. may continue to provide post-warranty technical support for the QL-GolfSim system.

Available services may include:

- Remote diagnostics and troubleshooting
- Assistance with software updates and system configuration
- Guidance regarding hardware repair, replacement, or upgrades
- Email, telephone, and video-based technical assistance
- Extended support, inspection, calibration, or maintenance services

Post-warranty services may be provided at commercially reasonable rates or under a separate support agreement.

10. Availability of Spare Parts

QuakeLogic Inc. will support the continued operation of the proposed QL-GolfSim system by coordinating access to replacement parts and compatible components, subject to manufacturer and supplier availability.

Spare-parts support may include:

- Tracking-camera and sensor components
- Projector and projection-system components
- Simulation computer and touchscreen components
- Impact screen, enclosure, turf, and hitting-surface components
- Automatic tee-up system components
- Cables, mounts, connectors, and related accessories

If an original component becomes unavailable or is discontinued, QuakeLogic Inc. may recommend a compatible equivalent or upgraded replacement, subject to technical compatibility and availability.

11. Software Updates and Lifecycle Support

QuakeLogic Inc. provides ongoing software and lifecycle support for the proposed QL-GolfSim system.

Software support includes:

- Bug fixes and stability improvements
- Compatibility and performance updates
- Minor feature enhancements
- Simulator software maintenance
- Course-library update support

The proposed package includes lifetime online system software updates and two (2) years of complimentary course-library updates.

Course-library support following the initial complimentary period will be subject to then-current availability and commercial terms.

Software updates may be delivered remotely, subject to Hickman County Schools' applicable network, security, and system-access requirements.



QUAKELOGIC

GOLF SIM

REAL SWING REAL RESULTS



QL-GOLFSIM

Professional Indoor Golf Simulation System

QUAKELOGIC | GOLF SIM

QL-GolfSim

- The QuakeLogic QL-GolfSim represents the latest generation of professional indoor golf simulation technology.
- Combining dual 6000-FPS high-speed cameras, AI-based trajectory reconstruction, and a 4K laser projection environment, the QL-GolfSim# delivers tour-grade accuracy, real-time response, and immersive visual realism for athletes, coaches, and performance centers.
- Developed under QuakeLogic's engineering supervision, the system is designed for continuous commercial operation, integrating every component 4 sensors, computing, software, impact structure, and training tools 4 into a single turnkey solution.
- QL-GolfSim conforms to international IEC electrical and EMC safety standards equivalent to CE/FCC and includes global service, installation, and technical support.
- Supports both left-handed and right-handed players without repositioning the hitting area or requiring major hardware adjustment.
- QL-GolfSim includes a standard integrated swing plate system with a 3D hitting surface configuration.
- Available for single-user and shared left/right bay configurations.

TECHNICAL SPECIFICATIONS

Sensor Type

Dual high-speed binocular cameras (stereo vision, 6000 frames per second)

Lighting System

Integrated infrared auxiliary fill light for low-light environments

Accuracy

≥ 99 % overall detection accuracy

Club Head Speed Range

1.3 3 165 mph

Club Head Speed Accuracy

± 0.5 mph

Spin Accuracy

± 20 rpm (side/back spin)

Measurement Repeatability

≥ % variance per shot

Detection Principle

3D stereoscopic physical tracking with AI motion reconstruction

Data Interface

Gigabit Ethernet, data rate 4 Gb/s

Ball Speed Range

1.5 3 215 mph

Ball Speed Accuracy

± 0.5 mph

Launch Angle Accuracy

≤ 1°

Response Time (Latency)

Real-time feedback with no perceptible delay (f 100 ms typical)

Calibration

Automated optical self-calibration with manual finetune option

- Measured parameters include ball speed, launch angle, backspin, sidespin, club head speed, club path, club face angle, impact position, carry distance, and total distance.

PROJECTION & VISUAL ENVIRONMENT

The QL-GolfSim delivers an unparalleled visual experience through its 4K UHD laser projection system. With 6000 lumens of brightness and an extraordinary contrast ratio of 3,000,000:1, every detail of the virtual course comes to life with stunning clarity and depth. The laser light source provides 20,000 hours of projection lifetime, ensuring years of maintenance-free operation for commercial facilities.

The premium high-density impact screen measures 3m x 2.5m x 4.2m and features acoustic backing for reduced noise, along with side and ceiling safety panels for complete protection. The projection creates images ranging from 165 to 180 inches diagonal with a 120 Hz refresh rate, delivering smooth, fluid motion that enhances realism. The viewing distance is adjustable from 3.0 to 5.5 meters, accommodating various room configurations and player preferences.

01

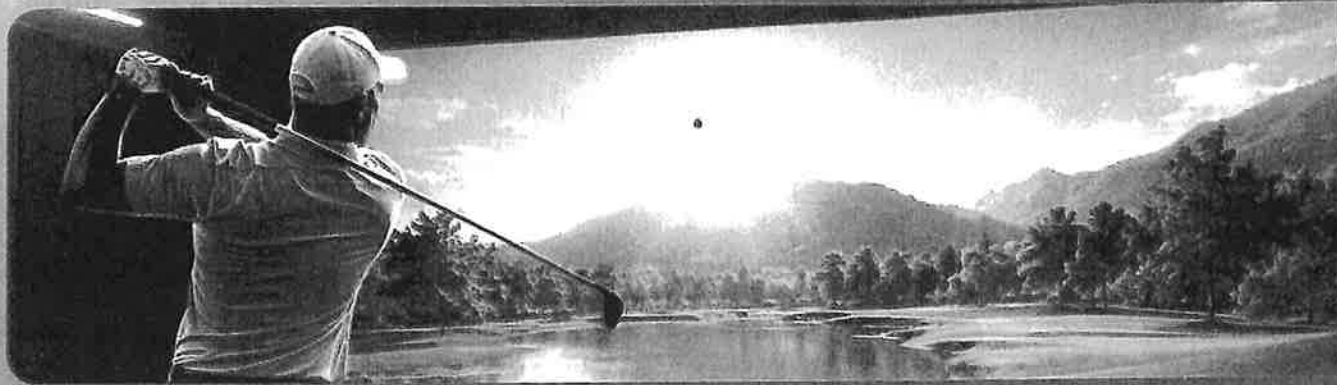
Display Technology

- 4K UHD laser projection
- 6000 lumens brightness
- 3,000,000:1 contrast ratio
- 20,000 hour laser lifetime
- 120 Hz refresh rate

02

Screen System

- Premium impact-resistant material
- Acoustic backing for noise reduction
- Side and ceiling safety panels
- 165-180 inch diagonal image
- Adjustable viewing distance



Powerful Computing Platform

The QL-GolfSim is powered by cutting-edge hardware designed for demanding real-time processing and stunning graphics rendering. At its core, an Intel® Core i5-12400 processor with 6 cores and 12 threads handles complex calculations and AI algorithms with ease. The NVIDIA® RTX 2060 graphics engine with 8GB of dedicated memory delivers exceptional visual performance, supporting DirectX 12 and CUDA AI acceleration for advanced motion analysis.

The system includes 16GB of DDR4 RAM for smooth multitasking and 512GB of expandable SSD storage for fast data access and ample space for course libraries and user profiles. Running on Windows 11 Professional, the platform provides a stable, secure environment for continuous commercial operation. An integrated stereo 2.1-channel speaker system delivers immersive audio, while comprehensive connectivity options including Ethernet, Wi-Fi, HDMI, and USB 3.0 ensure seamless integration with other devices and networks.



Processing Power

- Intel® Core® i5-12400 6-core processor with 16GB DDR4 RAM



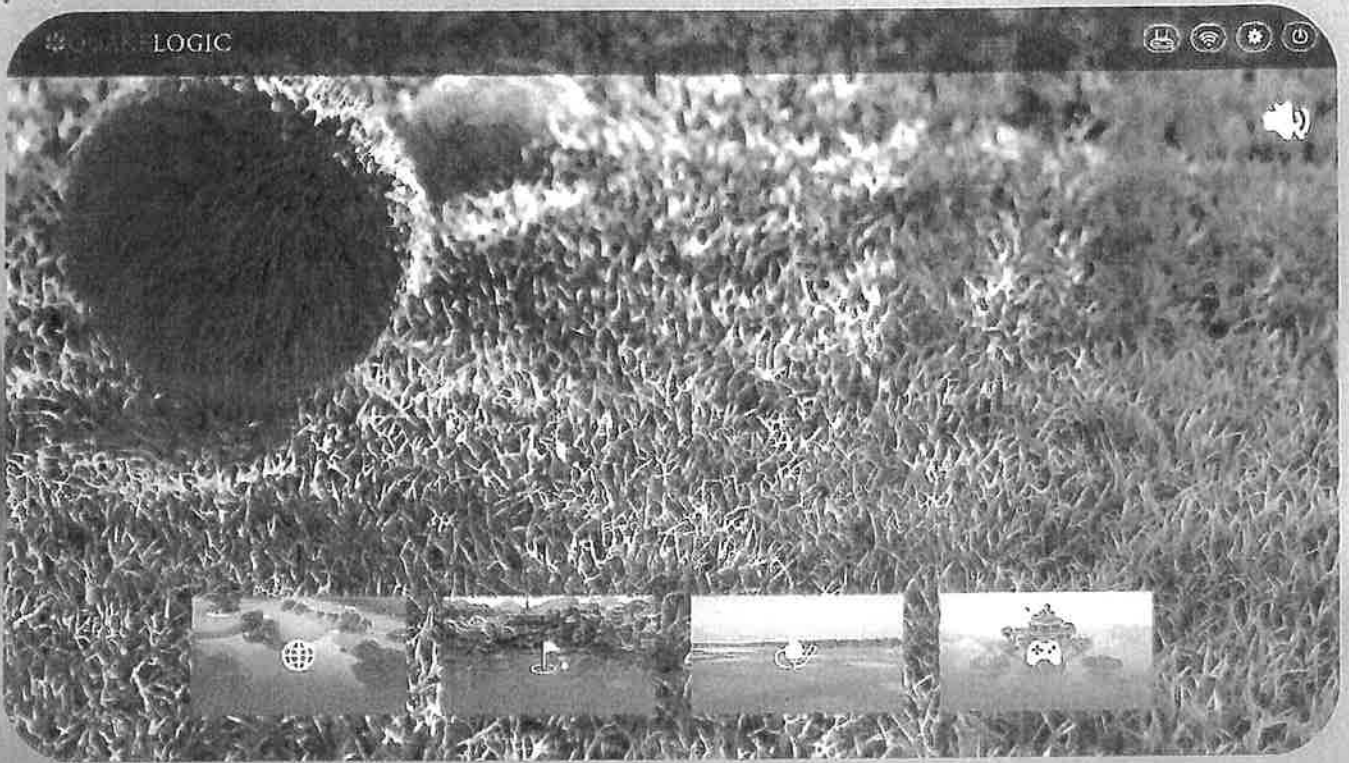
Graphics Engine

- NVIDIA® RTX 2060 8GB with AI support and DirectX 12



Storage & OS

- 512GB SSD with Windows 11 Professional operating system





Comprehensive Software Platform

The QL-GolfSim software platform transforms the hardware into a complete training and entertainment ecosystem. The simulation engine features over 170 high-definition golf courses, including internationally recognized venues, all replicated using digital elevation models (DEM) for authentic terrain representation. Players can adjust environmental factors including weather conditions, wind speed and direction, lighting, altitude, and green speed to simulate any playing condition imaginable.

The advanced ball physics engine is calibrated for air density and spin lift models, ensuring realistic ball flight behavior that matches real-world performance. Training and coaching modules provide real-time swing and ball-flight data visualization, with frame-by-frame swing replay from dual-angle camera feeds. AI coaching analysis offers detailed insights into club path, impact point, and face angle, while club-distance mapping, dispersion plots, and gapping charts help players optimize their equipment and technique.

Training and play modes support fairway, rough, bunker, and tee shot conditions through the system's 3D hitting surface configuration.

Course Library

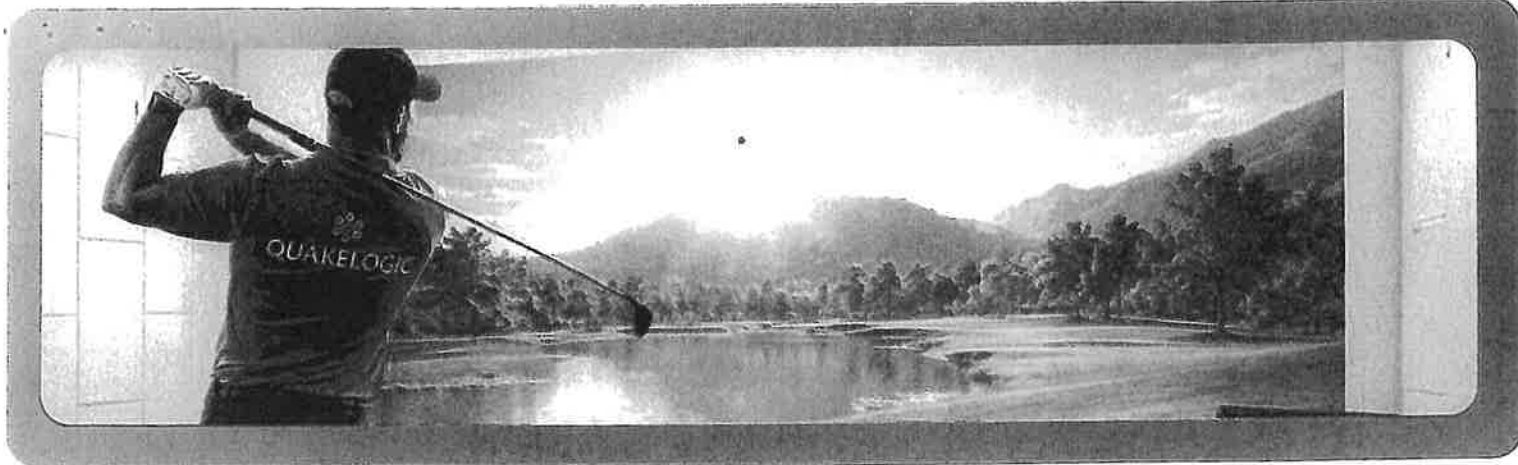
Course Library 170+ high-definition courses with real-terrain replication using digital elevation models and adjustable environmental conditions.

Training Analytics

Real-time data visualization, swing replay, AI coaching analysis, and comprehensive performance tracking with export capabilities.

Multiplayer Features

Local and online play, tournament modes, player rankings, cloud backup, and companion mobile app for remote review.



Installation and Space Requirements

The QL-GolfSim features a modular design that balances professional performance with practical installation requirements. The minimum recommended room size is 6.5m length × 3.8m width × 2.8m height, though the standard installation configuration of 8.0m × 4.8m × 3.1m provides optimal playing conditions and comfort. The complete system weighs approximately 300 kg, including the screen, modular aluminum frame structure, acoustic panels, floor turf integration, and all electronic components.

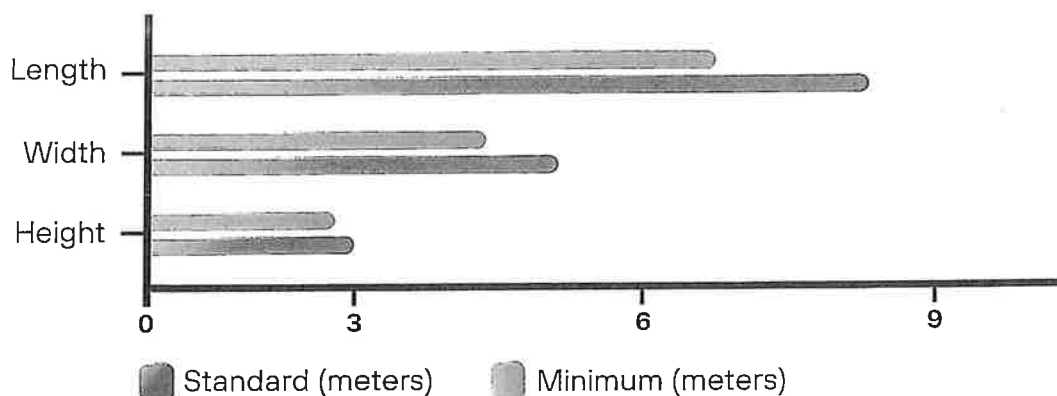
Installation Details

Installation is streamlined through pre-assembly, testing, and calibration before shipment. Each system includes a comprehensive accessories package featuring a hitting mat, 100 balls, auto tee-up machine, control keypad, club stand, and complete cabling kit. Professional installation services include setup, performance validation, and user training with a minimum of 4 hours of hands-on instruction. The typical installation duration ranges from 10 to 14 weeks from order confirmation, with global shipping available under DDP or CIF terms.

* Each system includes a fully automatic tee-up machine with adjustable tee height.

*Each system includes a standard integrated swing plate system with a 3D hitting surface configuration.

* Shared left/right play configurations are available for commercial bay installations.



The system operates reliably in temperatures ranging from 10 to 35°C with relative humidity below 85%, making it suitable for most indoor environments worldwide.



Support, Warranty and Compliance

QuakeLogic Inc. stands behind the QL-GolfSim with comprehensive support and warranty coverage designed for commercial operations. Every system includes a 1-year full-system warranty covering all components against nonhuman damage, ensuring peace of mind for facility operators and individual owners alike. Lifetime access to system updates and feature enhancements keeps your investment current with the latest technology advancements, while two years of free annual course library updates continuously expand your playing options.

Technical support is available 24/7 through multiple channels including email, chat, and video assistance, ensuring help is always available when needed. On-site services include professional installation, precision calibration, and comprehensive operator training. Optional annual or semi-annual inspection and calibration packages maintain peak performance over the system's lifetime. The QL-GolfSim# is designed to conform to IEC safety and EMC standards equivalent to CE/FCC requirements, with electrical safety and EMC compliance tested under ISO 9001 quality management protocols.

Year 1

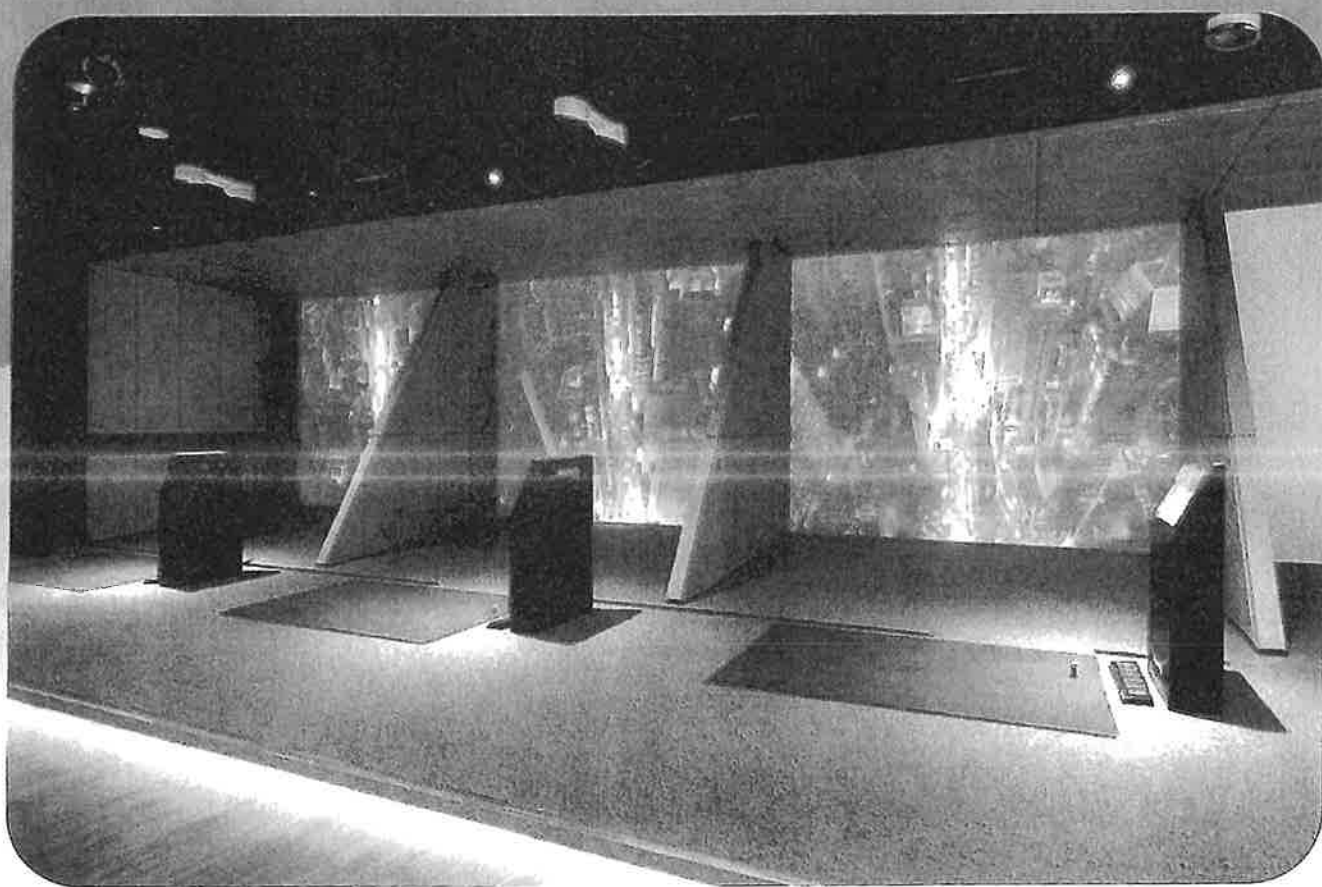
Full system warranty coverage and 24/7 technical support.

Year 1-2

Free annual course library updates and software enhancements.

Lifetime

Continuous access to system updates and feature releases.





Tour-Grade Performance Advantages

The QuakeLogic QL-GolfSim delivers a compelling combination of precision, technology, and value that sets it apart in the professional golf simulation market. Tour-grade precision with ± 0.5 mph accuracy and $\pm 1^\circ$ launch angle measurement provides feedback that rivals outdoor launch monitors costing significantly more. The 6000 FPS AI vision system captures true 3D trajectory data that other systems simply cannot match, while the 4K 6000-lumen laser projection creates an immersive environment that makes virtual play feel remarkably real.

The comprehensive training suite with advanced data analytics and AI coaching tools transforms the system from entertainment into a serious performance development platform. Despite its professional capabilities, the QL-GolfSim features a compact installation footprint with modular design that fits into spaces where other systems cannot. Global technical support and a lifetime software upgrade policy ensure your investment remains current and fully supported for years to come. Compliance with international safety standards makes the system suitable for commercial facilities, educational institutions, and residential installations worldwide.

- * Supports both left-handed and right-handed players without repositioning the hitting area.
- * Includes a standard integrated swing plate and 3D hitting surface configuration.
- * Supports fairway, rough, bunker, and tee play conditions.
- * Includes a fully automatic tee-up machine with adjustable tee height.

Precision

- ± 0.5 mph speed accuracy, $\pm 1^\circ$ launch angle, ± 20 rpm spin measurement with 99% detection accuracy.

Technology

- 6000 FPS dual cameras, AI motion reconstruction, 4K laser projection, RTX graphics acceleration.

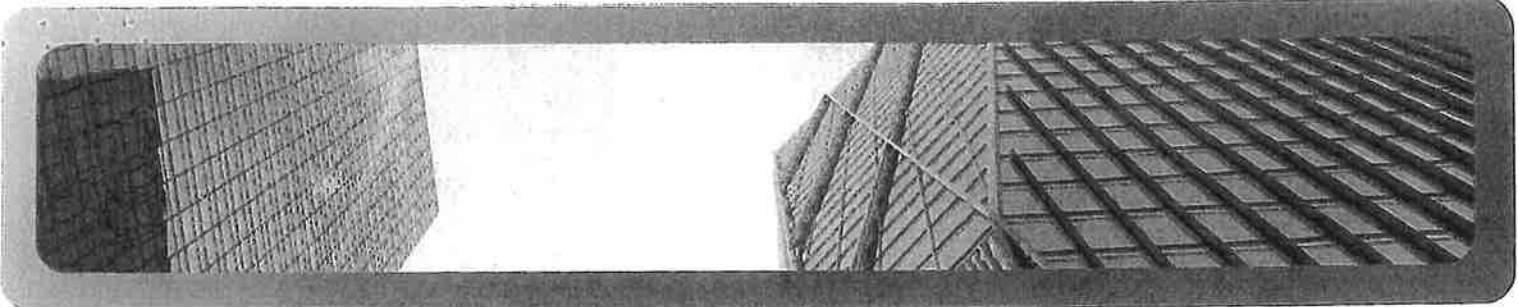
Training

- 170+ courses, AI coaching analysis, performance tracking, data export, multiplayer capabilities.

Support

- Lifetime software updates, 24/7 technical assistance, global installation, international compliance.

QuakeLogic Inc. certifies that the QL-GolfSim has been designed and manufactured under rigorous quality management and engineering standards, meeting all applicable international electrical, mechanical, and safety requirements for continuous indoor operation.



Transforming Training Operations with QuakeLogic Excellence

As the definitive industry leader, QuakeLogic empowers organizations to elevate their operational capabilities and achieve unparalleled training efficacy through our cutting-edge simulation technology.

Connect with QuakeLogic: Your Gateway to Innovation

Corporate Headquarters

QUAKELOGIC INC.

4010 Foothills Blvd. Suite 103/194

Roseville, CA 95747, USA

Executive Support Line

+1 (916) 899-0391

Direct access for executive consultations and priority support.

Available Monday - Friday, 9 AM - 5 PM PST

Strategic Inquiries

sales@quakelogic.net

For strategic partnerships, enterprise solutions, and comprehensive information.

Our Unwavering Commitment to Operational Excellence

Certified Quality Assurance

Adhering to and exceeding the most rigorous international and industry standards for unparalleled performance, reliability, and security across all our solutions.

Pioneering Industry Leadership

Driving innovation and setting the benchmark for simulation technology, with a relentless focus on future-forward advancements and client success.

Dedicated Client Success

A bespoke partnership approach ensuring seamless integration, optimal performance, and continuous evolution of your training and operational capabilities.

Explore Our Complete Product Portfolio



Scan to Access Cutting-Edge Solutions

Discover how QuakeLogic's comprehensive suite of advanced simulation products can revolutionize your operational readiness and elevate your training programs to new, unprecedented heights.

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CORPORATE
PROJECT REFERENCES

QUAKELOGIC



REFERENCE PORTFOLIO

A concise index of the organizations and awarded or completed project scopes documented in this reference profile.

NO.	ORGANIZATION / PROJECT	RELATIONSHIP
01	Trinity Area School District – Backhoe Loader Simulator Systems	< 1 year (2026–Present)
02	U.S. Department of the Air Force – Compact Welding Simulator	< 1 year (2026–Present)
03	Black River Technical College – Dual-User Welding Simulators	< 1 year (2026–Present)
04	Ohio Department of Youth Services – CO - Education - Welding Simulators	< 1 year (2026–Present)
05	Greater New Bedford Regional Vocational Technical High School District – Construction Craft Laborer (CCL) Simulators	< 1 year (2026–Present)
06	New York State Department of Corrections and Community Supervision (DOCCS) – Heavy Equipment Simulators	< 1 year (2026–Present)
07	United Nations Office for Project Services (UNOPS) – Augmented / Virtual Reality Welding Simulators	< 1 year (2026–Present)
08	North Carolina A&T State University – Golf Simulator Systems	< 1 year (2026–Present)
09	Florida State University, Panama City – Golf Simulator Systems	< 1 year (2026–Present)
10	Florida Polytechnic University – Supply of A Large-Scale Simulator	< 1 year (2025–Present)
11	U.S. Air Force – Supply of A Large-Scale Simulator	< 1 year (2025–Present)
12	California Institute of Technology (Caltech) – Supply and Installation of a Simulator	3 years (2023–Present)

01

PROJECT REFERENCE

Trinity Area School District – Backhoe Loader Simulator Systems
REFERENCE CONTACT
CONTACT NAME

Taylor R. Hott

CONTACT TITLE

Director of Fiscal Services

CONTACT EMAIL ADDRESS
thott@trinityhillers.net
RELATIONSHIP LENGTH

< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Purchase Order No. 25001301 by Trinity Area School District for the supply of two (2) QL-BH300 Backhoe Loader Simulator Systems with 3DOF Motion Platform and VR Edition. Each simulator includes SAE-standard backhoe loader controls, dual joysticks, steering wheel, pedals, an adjustable operator seat with seat belt sensor, a detachable 3DOF motion platform, a VR headset with interactive controllers, and three 43-inch Full HD displays. The systems also include a Training Record Management System, LMS-based curriculum resources, Practice and Examination Modes, automated performance assessment, and training modules covering machine inspection, control familiarization, driving, trenching, lifting, material handling, backfilling, and construction-site operations. The awarded scope includes delivery and freight, setup support, operator orientation, warranty coverage, technical support, curriculum updates, and software maintenance support.

02

PROJECT REFERENCE

U.S. Department of the Air Force – Compact Welding Simulator

REFERENCE CONTACT

CONTACT NAME

Ronnie L. Bushue

CONTACT TITLE

Contracting Officer

CONTACT EMAIL ADDRESS
ronnie.bushue.1@us.af.mil
RELATIONSHIP LENGTH

< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Contract No. FA460826P0050 by the U.S. Department of the Air Force for the supply and delivery of one (1) QL-WS200 Compact Welding Simulator to Barksdale Air Force Base, Louisiana. The awarded system is a compact, self-contained virtual welding training platform with integrated computer hardware, simulation software, touchscreen display, and VR-based welding headset. It supports SMAW/Stick, GMAW/MIG, FCAW/Flux-Cored, and GTAW/TIG welding processes; Flat, Horizontal, Vertical, and Overhead welding positions; and Butt, Lap, Tee, pipe, plate, and overlay welding exercises. The configuration includes realistic welding torches, a Stand and Coupons System, automated performance feedback and scoring, weld-defect analysis, instructor review and reporting tools, and an included Virtual Bend Test Feature for visualizing internal weld defects and structural failure points. The awarded scope also includes FOB Destination delivery, setup support, functional verification, remote operator training, a two-year limited warranty, technical support, operational documentation, and spare-parts support.

03

PROJECT REFERENCE

Black River Technical College – Dual-User Welding Simulators

REFERENCE CONTACT

CONTACT NAME	Rhonda Stone
CONTACT TITLE	Purchasing Agent
CONTACT EMAIL ADDRESS	purchasing@blackrivertech.edu
RELATIONSHIP LENGTH	< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Purchase Order No. P0001898 by Black River Technical College for the supply of two (2) QL-Dual User Welding Simulator Systems under IFB 2026-2. Each simulator is configured as a dual-operator virtual reality welding training system, allowing two students to train simultaneously with separate VR headsets, welding devices, welding stands, process selections, coupons, welding positions, WPS settings, and individual scoring results. The systems support SMAW/Stick, GMAW/MIG, FCAW, and GTAW/TIG welding processes, including TIG with and without filler metal, multiple transfer modes, plate and pipe positions, oxy-fuel cutting simulation, virtual bend testing, weld-quality analysis, replay functions, real-time performance scoring, instructor monitoring, student management, and PDF reporting. Each unit also includes dual 22-inch touchscreen monitors, two VR headsets, welding torches, an adaptive TIG foot pedal, optical tracking, structured curriculum content, training manuals, and user manuals. The awarded scope includes delivery and freight, basic installation and setup support, calibration guidance, operator/instructor orientation, a one-year limited warranty, software support, and applicable software updates.

04

PROJECT REFERENCE

Ohio Department of Youth Services – CO - Education - Welding Simulators

REFERENCE CONTACT

CONTACT NAME

Christian Carey

CONTACT TITLE

Sourcing Planner, Division of Finance and Planning

CONTACT EMAIL ADDRESS
Christian.Carey@dys.ohio.gov
RELATIONSHIP LENGTH

< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Contract No. CTR039504 by the Ohio Department of Youth Services for the supply of QL-Dual User Welding Simulator systems under the CO - Education - Welding Simulators program. The awarded scope includes four (4) dual-user virtual reality welding simulator units, delivery/freight to three Ohio facility locations, installation and commissioning, operator/instructor training, and warranty and software support. Each simulator supports two trainees simultaneously and includes VR headsets, welding device sets, welding stands, touchscreen console operation, instructor monitoring, replay and reporting tools, WPS-based training, and welding processes including SMAW, GMAW/MIG, FCAW, and GTAW/TIG. The project supports vocational, career, and technical welding education for youth training environments.

05

PROJECT REFERENCE

Greater New Bedford Regional Vocational Technical High School District – Construction Craft Laborer (CCL) Simulators

REFERENCE CONTACT

CONTACT NAME

Pamela Stuart

CONTACT TITLE

School Business Administrator

CONTACT EMAIL ADDRESS

pamela.stuart@gnbvt.edu

RELATIONSHIP LENGTH

< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Purchase Order No. 40486 / Massachusetts Standard Contract for the supply of three (3) Construction Craft Laborer (CCL) Simulator systems to Greater New Bedford Regional Vocational Technical High School District. The awarded scope includes three (3) complete QL-5in1 Simulator operator stations for construction craft laborer and heavy equipment training, each configured with a 65-inch display, joystick controls, pedals, steering wheel, simulation computer system, and multi-equipment construction simulation software. The system supports tracked and wheeled excavator, compact track loader, articulated dump truck, dozer, and telehandler training modules. The contract scope also includes delivery, installation, commissioning, operator/instructor training, curriculum tools, training management capabilities, one-year warranty, software support, and two-year annual service.

06

PROJECT REFERENCE

New York State Department of Corrections and Community Supervision (DOCCS) – Heavy Equipment Simulators

REFERENCE CONTACT

CONTACT NAME

Nicolas Fusaro

CONTACT TITLE

Contract Management Specialist 1

CONTACT EMAIL ADDRESS

nicolas.fusaro@doccs.ny.gov

RELATIONSHIP LENGTH

< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Contract No. PA161868 for the supply of Heavy Equipment Simulators to NYS Department of Corrections and Community Supervision facilities. The awarded scope includes delivery, installation, instruction of personnel, and warranty support for the QL 3in1 Heavy Equipment Simulator platform. The system provides excavator, bulldozer, and track loader training on a single simulator platform and includes a 3-axis motion system, panoramic multi-display visual system, instructor workstation, offline software operation, and locally deployable updates for secure facility environments.

07

PROJECT REFERENCE

United Nations Office for Project Services (UNOPS) – Augmented / Virtual Reality Welding Simulators

REFERENCE CONTACT

CONTACT NAME	Fernando Cotrim Barbieri
CONTACT TITLE	Director de Oficina Multipaís
CONTACT EMAIL ADDRESS	adquisiciones.arg@unops.org
RELATIONSHIP LENGTH	< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. was awarded Contract No. 1016134 for the provision, installation, commissioning, and training of educational-technical professional augmented or virtual reality welding simulators for UNOPS. The awarded scope includes three (3) welding simulators, three (3) adjustable workpiece support structures, three (3) UPS units for 220V, three (3) perpetual licenses, one (1) wireless router, one (1) main controller for e-learning platform management, installation and commissioning services, and instructor training. The proposed solution is based on the QL-WS100 Welding Simulator platform, supporting GMAW (MIG/MAG), FCAW, SMAW, and GTAW (TIG) training with immersive simulation, performance analytics, and instructor supervision tools.

08

PROJECT REFERENCE

North Carolina A&T State University – Golf Simulator Systems

REFERENCE CONTACT

CONTACT NAME	Martinique “Nikki” Williams
CONTACT TITLE	Procurement Services Director
CONTACT EMAIL ADDRESS	purchase@ncat.edu
RELATIONSHIP LENGTH	< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. supplied and coordinated the delivery of three (3) indoor golf simulator systems, including two (2) standard fixed-installation units and one (1) portable simulator configuration. Scope included system configuration, shipment coordination, installation planning support, and user documentation. The project supports structured recreational and athletic programming within a university facility environment.

09

PROJECT REFERENCE

Florida State University, Panama City – Golf Simulator Systems**REFERENCE CONTACT**

CONTACT NAME	Ahmet Pamuk
CONTACT TITLE	Professor
CONTACT EMAIL ADDRESS	apamuk@pc.fsu.edu
RELATIONSHIP LENGTH	< 1 year (2026–Present)

PROJECT SUMMARY

QuakeLogic Inc. supplied and coordinated the delivery of an indoor golf simulator system. Scope included system configuration, shipment coordination, installation planning support, and user documentation. The project supports structured recreational and athletic programming within a university facility environment.

10

PROJECT REFERENCE

Florida Polytechnic University – Supply of A Large-Scale Simulator**REFERENCE CONTACT****CONTACT NAME**

Prof. Güven Kıymak

CONTACT TITLE

Professor, College of Engineering

CONTACT EMAIL ADDRESSgkiymaz@floridapoly.edu**RELATIONSHIP LENGTH**

< 1 year (2025–Present)

PROJECT SUMMARY

QuakeLogic Inc. supplied and coordinated deployment of advanced simulator equipment supporting applied research and instructional use. Scope included system configuration, logistics coordination, documentation, and post-delivery technical support.

11

PROJECT REFERENCE

U.S. Air Force – Supply of A Large-Scale Simulator

REFERENCE CONTACT

CONTACT NAME	TSgt Shawn Suber
CONTACT TITLE	Technical Application Specialist
CONTACT EMAIL ADDRESS	shawn.suber.1@us.af.mil
RELATIONSHIP LENGTH	< 1 year (2025–Present)

PROJECT SUMMARY

QuakeLogic Inc. supplied and coordinated delivery of a large-scale seismic simulation system. Scope included system configuration, logistics coordination, commissioning support, and technical documentation delivery.

12
PROJECT REFERENCE
California Institute of Technology (Caltech) – Supply and Installation of a Simulator
REFERENCE CONTACT
CONTACT NAME

Dr. Igor Stubailo

CONTACT TITLE

Research Scientist

CONTACT EMAIL ADDRESS
stubailo@caltech.edu
RELATIONSHIP LENGTH

3 years (2023–Present)

PROJECT SUMMARY

QuakeLogic Inc. provided a simulation platform. Scope included system integration, installation coordination, calibration support, and technical documentation. The project required alignment with academic research protocols and precision system validation within a university setting.



Certificate Of Registration

Awarded to

QUAKELOGIC INC.

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ISO 9001:2015

Quality Management Systems

Scope of work

DESIGN, DEVELOPMENT, MANUFACTURING, INTEGRATION, SALES, INSTALLATION, AND SERVICING OF SEISMIC AND GEOPHYSICAL, ENVIRONMENTAL MONITORING SYSTEMS, LABORATORY AND INDUSTRIAL TESTING EQUIPMENT, AUTOMATED AND MECHATRONIC SYSTEMS, AND ASSOCIATED HARDWARE AND SOFTWARE SOLUTIONS, INCLUDING DATA ACQUISITION, ANALYSIS, REPORTING, TECHNICAL SUPPORT, TRAINING, AND MAINTENANCE SERVICES

EA 34

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Originally Registered: 23 JAN 2026

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Valid up-to: 22 JAN 2027

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RE-CERTIFICATION DUE ON: 22 JAN 2029

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ISO 14001:2015

Environmental Management Systems

Scope of work

DESIGN, DEVELOPMENT, MANUFACTURING, INTEGRATION, SALES, INSTALLATION, AND SERVICING OF SEISMIC AND GEOPHYSICAL, ENVIRONMENTAL MONITORING SYSTEMS, LABORATORY AND INDUSTRIAL TESTING EQUIPMENT, AUTOMATED AND MECHATRONIC SYSTEMS, AND ASSOCIATED HARDWARE AND SOFTWARE SOLUTIONS, INCLUDING DATA ACQUISITION, ANALYSIS, REPORTING, TECHNICAL SUPPORT, TRAINING, AND MAINTENANCE SERVICES

EA 34

Certificate No: AQUIS-20002

Originally Registered: 23 JAN 2026

Latest Issue: 23 JAN 2026

Valid up-to: 22 JAN 2027

SURV. AUDIT ON OR BEFORE: 22 DEC 2026

RE-CERTIFICATION DUE ON: 22 JAN 2029

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ISO 45001:2018

Occupational Health and Safety Management Systems

Scope of work

DESIGN, DEVELOPMENT, MANUFACTURING, INTEGRATION, SALES, INSTALLATION, AND SERVICING OF SEISMIC AND GEOPHYSICAL, ENVIRONMENTAL MONITORING SYSTEMS, LABORATORY AND INDUSTRIAL TESTING EQUIPMENT, AUTOMATED AND MECHATRONIC SYSTEMS, AND ASSOCIATED HARDWARE AND SOFTWARE SOLUTIONS, INCLUDING DATA ACQUISITION, ANALYSIS, REPORTING, TECHNICAL SUPPORT, TRAINING, AND MAINTENANCE SERVICES

EA 34

Certificate No: AQU5-30002

Originally Registered: 23 JAN 2026

Latest Issue: 23 JAN 2026

Valid up-to: 22 JAN 2027

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