



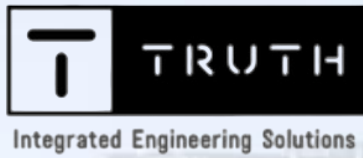
Integrated Engineering Solutions



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Truth Integrated Engineering Solutions

PORTFOLIO



Introduction:

Truth Integrated Engineering Solutions is a specialized engineering contracting firm providing comprehensive electromechanical design services for residential, commercial, and industrial projects. We deliver engineering solutions built on technical accuracy, regulatory compliance, and practical constructability—ensuring that every system we design can be efficiently executed, operated, and maintained.

Our approach to engineering is disciplined and execution-driven. We combine solid technical expertise with a deep understanding of site conditions, coordination requirements, and cost implications. Design decisions are made with full awareness of real-world constraints, ensuring systems that are reliable, efficient, code-compliant, and economically sound. At Truth, engineering is not theoretical; it is precise, accountable, and purpose-driven.

We provide full-scope electromechanical design services covering electrical systems, HVAC, plumbing, and firefighting works. Our scope includes concept development, detailed engineering drawings, load and system calculations, technical specifications, and full multidisciplinary coordination. We work closely with clients, architects, and contractors to ensure seamless integration across all disciplines, minimizing conflicts and supporting smooth project execution.

Truth Integrated Engineering Solutions is a legally registered engineering contracting firm operating in full compliance with applicable national and international codes and standards. Our multidisciplinary team brings strong professional capacity across electromechanical systems, allowing us to manage projects of varying scale and complexity while maintaining consistent standards of safety, performance, and efficiency. Every project is approached with full technical responsibility and professional accountability.

Our vision is to be a trusted engineering partner delivering sustainable, efficient, and innovative electromechanical solutions. We aim to build long-term value for our clients by providing designs that balance performance, safety, durability, and cost—while supporting the successful delivery of projects from design through execution.

Driven by engineering integrity and a commitment to excellence, Truth Integrated Engineering Solutions positions itself as a dependable partner for projects where precision, compliance, and execution quality are essential. We measure success not only by design approval, but by how effectively our solutions perform in the built environment.

1. About Us

Truth Integrated Engineering Solutions is a specialized engineering contracting firm providing comprehensive electromechanical design services. We focus on delivering reliable, efficient, and code-compliant engineering solutions that support the successful execution of residential, commercial, and industrial projects. Our approach combines technical expertise, practical design thinking, and a deep understanding of site requirements to ensure systems that are not only technically sound but also cost-effective and constructible.

2. Legal Status & Professional Capacity

Truth Integrated Engineering Solutions is a legally registered engineering contracting firm, operating in full compliance with national and international codes and standards. Our team brings multidisciplinary expertise in electromechanical systems, ensuring that all projects are executed with technical precision, safety, and efficiency.

3. Our Vision

To be a trusted engineering partner delivering sustainable, efficient, and innovative electromechanical solutions.

4. Our Services

We provide full-scope electromechanical design services, including electrical, mechanical (HVAC), plumbing, and firefighting systems. Our services cover concept design, detailed engineering drawings, load and system calculations, technical specifications, and coordination across all disciplines to ensure seamless integration. We work closely with clients, architects, and contractors to deliver tailored solutions that meet project requirements, applicable codes, and international standards while optimizing performance, safety, and efficiency.

6. Our Team

Truth Integrated Engineering Solutions is led by **Prof. Dr. Eng. Hany El-Sayed Abdel Haleim Saad**, a distinguished professor of Mechanical Power Engineering at Ain Shams University. He is supported by a team of highly qualified engineers specializing in electrical, mechanical, plumbing, and safety systems.

7. Clients & Partners

- Government institutions
- Private developers
- Industrial companies
- Hospitals and healthcare facilities
- Universities and educational institutions
- International organizations

8. Contact Us

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- Phone: +20 1000 38 56 38
- Address: 24, El-Shahid Sayed Zakaria, Sheraton, Al-Nozha

9. Core Activities

- Electromechanical system design
- HVAC systems
- Plumbing and firefighting systems
- Facility management
- Energy efficiency studies
- Solar energy integration
- Inspection and testing of mechanical systems
- Consultancy for industrial automation

10. Board of Directors

10.1 Chairman of the Board

Prof. Dr. Eng. Hany El-Sayed Abdel Haleim Saad

Professor of Mechanical Power Engineering at Ain Shams University. He holds a Ph.D. in Combustion and Heat Transfer and has over **two decades of academic and consultancy experience**. He has led numerous electromechanical design and supervision projects across Egypt and the Middle East, including HVAC, plumbing, firefighting, and energy systems for hospitals, universities, factories, and government facilities.

11. Engineering Services Offered

- HVAC system design and supervision
- Plumbing and firefighting systems
- Electrical distribution and lighting systems
- Facility safety and fire protection systems
- Energy audits and solar energy integration
- Technical documentation and shop drawings
- Supervision and commissioning of electromechanical systems

12. Consultant Career / Track Record

Prof. Dr. Hany Saad has led and contributed to a wide range of consultancy projects, including:

12.1.0 Semiramis InterContinental Hotel – HVAC System Upgrade

↪ Delivered HVAC design and supervision services for **Semiramis InterContinental Hotel**, including the assessment and optimization of seven air handling units (AHUs). The scope covered cooling load calculations, airflow analysis, verification of existing ductwork, power supply, and chilled water capacity, followed by optimized AHU selection and full system coordination. The project was finalized through an owner-approved engineering package ensuring compliance, efficiency, and seamless integration with existing site conditions.

↪ **Project Summary**

- Design and supervision of the hotel HVAC system
- Assessment of existing supply and exhaust ductwork for seven AHUs
- Cooling load calculations and airflow determination for each AHU
- Verification of electrical power and chilled water capacity compatibility
- AHU technical selection based on calculated loads and site constraints
- Preparation of technical specifications and Bill of Quantities (BOQ)
- Review and approval of supplier submissions in coordination with the owner
- Final HVAC design package issued for owner approval

12.1.1 Al Quseir Hotel – HVAC Cooling Plant Design

↪ Provided HVAC engineering services for **Al Quseir Hotel**, including cooling load calculations, central cooling plant design, and review of the hotel's chilled water piping networks. The scope focused on verifying system capacity, optimizing plant configuration, and ensuring proper integration of piping layouts to meet operational and performance requirements.

↪ **Project Summary**

- Cooling load calculations for the hotel
- Design of the central cooling plant
- Review and assessment of chilled water piping lines
- System capacity verification and optimization
- Coordination to ensure constructability and performance

12.1.2 Makadi Hotel – Chilled Water Plant Engineering

↗ Provided engineering services for **Makadi Hotel**, including full chilled water plant drafting, as-built documentation, and performance optimization studies. The scope included proposing efficiency improvements and capacity upgrades for the chillers to enable the hotel to reliably meet cooling loads at the highest operational efficiency.

↗ **Project Summary**

- Full chilled water plant drawings
- As-built documentation
- Review of existing chiller capacities
- Proposals for efficiency improvement measures
- Capacity enhancement recommendations to meet peak loads.

12.1.3 Oriental Weavers – HVAC Design & Supervision

↗ Provided HVAC design and site supervision services for **Oriental Weavers**, covering the engineering and execution of air conditioning works. The scope ensured proper system design, efficient implementation, and compliance with project requirements and applicable standards.

↗ **Project Summary**

- HVAC system design
- Supervision of air conditioning works execution
- Coordination with site and related disciplines
- Compliance with technical and performance requirements

12.1.4 Al Aawayed – HVAC Design & Supervision

↗ Provided HVAC design and site supervision services for **Al Aawayed**, covering the engineering and execution of air conditioning works. The scope ensured proper system design, efficient implementation, and compliance with project requirements and applicable standards.

↗ **Project Summary**

- HVAC system design
- Supervision of air conditioning works execution
- Coordination with site and related disciplines
- Compliance with technical and performance requirements

12.1.5 Al Doushma – HVAC Design & Supervision

↗ Provided HVAC design and site supervision services for **Al Doushma**, covering the engineering and execution of air conditioning works. The scope ensured proper system design, efficient implementation, and compliance with project requirements and applicable standards.

↗ **Project Summary**

- HVAC system design
- Supervision of air conditioning works execution
- Coordination with site and related disciplines
- Compliance with technical and performance requirements

12.1.6 King Marriot Hotel– HVAC Design & Supervision

↗ Provided HVAC design and site supervision services for **King Marriot Hotel**, covering the engineering and execution of air conditioning works. The scope ensured proper system design, efficient implementation, and compliance with project requirements and applicable standards.

↗ **Project Summary**

- HVAC system design
- Supervision of air conditioning works execution
- Coordination with site and related disciplines
- Compliance with technical and performance requirements

12.1.7 Petroport Stadium – HVAC Design & Supervision

↗ Provided HVAC design and site supervision services for **Petroport Stadium**, covering the engineering and execution of air conditioning works. The scope ensured proper system design, efficient implementation, and compliance with project requirements and applicable standards.

↗ **Project Summary**

- HVAC system design
- Supervision of air conditioning works execution
- Coordination with site and related disciplines
- Compliance with technical and performance requirements

12.1.8 Unilever – HVAC Design & Supervision

↗ Provided HVAC design and site supervision services for **Unilever**, covering the engineering and execution of air conditioning works. The scope ensured proper system design, efficient implementation, and compliance with project requirements and applicable standards.

↗ **Project Summary**

- HVAC system design
- Supervision of air conditioning works execution
- Coordination with site and related disciplines
- Compliance with technical and performance requirements

12.1.9 Zero Marina Villas – HVAC & Plumbing Systems Design

↗ Provided full electromechanical design services for **Zero Marina Villas**, covering HVAC and plumbing systems. The scope included system design, detailed load and airflow calculations, preparation of technical specifications and BOQs, and full tender documentation. Truth also supported the client during contractor technical evaluation to ensure compliance with design intent and project requirements.

↗ **Project Summary**

- HVAC system design with detailed drawings
- Cooling load and airflow calculations per zone
- Plumbing system design and drawings
- Technical specifications and BOQs for HVAC and plumbing
- Preparation of complete tender documents
- Support during contractors' technical evaluation
- Issuance of complete HVAC and plumbing design packages

12.2.0 Ain Shams University – New Campus “Alsun College” | HVAC & Firefighting Systems Design

↗ Provided engineering design services for **Ain Shams University New Campus – Alsun College**, covering HVAC and firefighting systems. The scope focused on delivering coordinated, code-compliant designs to support safe, efficient, and reliable operation across the campus facilities.

↗ **Project Summary**

- HVAC system design
- Firefighting system design
- Code-compliant and coordinated engineering solutions
- Integration with architectural and structural requirements

12.2.1 Al Demirdash Hospital | HVAC & Firefighting Systems Design

↗ Provided engineering design services for **Al Demirdash Hospital**, covering HVAC and firefighting systems. The scope focused on delivering coordinated, code-compliant designs to support safe, efficient, and reliable operation across the campus facilities.

↗ Project Summary

- HVAC system design
- Firefighting system design
- Code-compliant and coordinated engineering solutions
- Integration with architectural and structural requirements

12.2.2 Elghanim Company – Facility Safety Systems

↗ Provided engineering design services for facility safety systems at **Elghanim Company**. The scope included planning and designing systems to ensure operational safety, regulatory compliance, and protection of personnel and assets across the facility.

↗ Project Summary

- Design of facility safety systems
- Compliance with national and international safety standards
- Coordination with existing facility infrastructure
- Technical specifications and system documentation

12.2.3 Midor Factory – HVAC & Plumbing Systems

↗ Provided comprehensive design services for HVAC and plumbing systems at the **Midor Factory**. The scope included system design, technical specifications, and coordination to ensure efficient, code-compliant, and reliable operation.

↗ Project Summary

- HVAC system design and drawings
- Plumbing system design and drawings
- Preparation of technical specifications and BOQs
- Coordination with civil and electrical works
- Ensuring compliance with performance and safety standards

12.2.4 Petrobel Factory – HVAC & Plumbing Systems

↪ Provided comprehensive design services for HVAC and plumbing systems at **Petrobel Factory**. The scope included system design, technical specifications, and coordination to ensure efficient, code-compliant, and reliable operation.

↪ **Project Summary**

- HVAC system design and drawings
- Plumbing system design and drawings
- Preparation of technical specifications and BOQs
- Coordination with civil and electrical works
- Ensuring compliance with performance and safety standards

12.2.5 Chipsy Factory – HVAC & Plumbing Systems

↪ Provided comprehensive design services for HVAC and plumbing systems at the **Chipsy Factory**. The scope included system design, technical specifications, and coordination to ensure efficient, code-compliant, and reliable operation.

↪ **Project Summary**

- HVAC system design and drawings
- Plumbing system design and drawings
- Preparation of technical specifications and BOQs
- Coordination with civil and electrical works
- Ensuring compliance with performance and safety standards

12.2.6 Kraft Factory – HVAC & Plumbing Systems

↪ Provided comprehensive design services for HVAC and plumbing systems at the **Kraft Factory**. The scope included system design, technical specifications, and coordination to ensure efficient, code-compliant, and reliable operation.

↪ **Project Summary**

- HVAC system design and drawings
- Plumbing system design and drawings
- Preparation of technical specifications and BOQs
- Coordination with civil and electrical works
- Ensuring compliance with performance and safety standards

12.2.6 Danon Factory – HVAC & Plumbing Systems

↗ Provided comprehensive design services for HVAC and plumbing systems at the **Danon Factory**. The scope included system design, technical specifications, and coordination to ensure efficient, code-compliant, and reliable operation.

↗ **Project Summary**

- HVAC system design and drawings
- Plumbing system design and drawings
- Preparation of technical specifications and BOQs
- Coordination with civil and electrical works
- Ensuring compliance with performance and safety standards

12.2.7 Lafarge – Solar Energy Evaluations

↗ Conducted solar energy evaluations for **Lafarge**, assessing the feasibility, performance, and integration of solar energy solutions for the facility. The scope focused on optimizing energy efficiency, reducing operational costs, and supporting sustainable energy initiatives.

↗ **Project Summary**

- Assessment of solar energy potential for the facility
- Performance and feasibility studies
- Recommendations for system integration and efficiency
- Support for sustainable energy planning and implementation

12.2.7 Reliance – Solar Energy Evaluations

↗ Conducted solar energy evaluations for **Reliance**, assessing the feasibility, performance, and integration of solar energy solutions for the facility. The scope focused on optimizing energy efficiency, reducing operational costs, and supporting sustainable energy initiatives.

↗ **Project Summary**

- Assessment of solar energy potential for the facility
- Performance and feasibility studies
- Recommendations for system integration and efficiency
- Support for sustainable energy planning and implementation

12.2.7 Movenpick – Boiler & Combustion System Testing

↪ Provided engineering services for the testing and evaluation of boiler and combustion systems at **Movenpick**. The scope focused on verifying system performance, ensuring operational safety, and optimizing efficiency in compliance with applicable standards.

↪ **Project Summary**

- Testing and evaluation of boiler systems
- Assessment of combustion performance and efficiency
- Verification of operational safety
- Recommendations for system optimization

12.2.8 Savola – Boiler & Combustion System Testing

↪ Provided engineering services for the testing and evaluation of boiler and combustion systems at **Savola**. The scope focused on verifying system performance, ensuring operational safety, and optimizing efficiency in compliance with applicable standards.

↪ **Project Summary**

- Testing and evaluation of boiler systems
- Assessment of combustion performance and efficiency
- Verification of operational safety
- Recommendations for system optimization

12.2.9 Misr Petroleum – Boiler & Combustion System Testing

↪ Provided engineering services for the testing and evaluation of boiler and combustion systems at **Misr Petroleum**. The scope focused on verifying system performance, ensuring operational safety, and optimizing efficiency in compliance with applicable standards.

↪ **Project Summary**

- Testing and evaluation of boiler systems
- Assessment of combustion performance and efficiency
- Verification of operational safety
- Recommendations for system optimization

12.3.0 Naval Forces General Hospital – Full Electromechanical Design & Supervision

↗ Provided full electromechanical design and supervision services for the **Naval Forces General Hospital**, covering HVAC, firefighting, electrical, and plumbing systems. The scope included detailed system design, technical specifications, and on-site supervision to ensure proper execution, compliance, and reliable operation.

↗ Project Summary

- Design of HVAC, firefighting, electrical, and plumbing systems
- Preparation of technical specifications and drawings
- Supervision of implementation works
- Coordination to ensure compliance and constructability
- Ensuring reliable and safe hospital operations

12.3.1 Sea Wave – HVAC System Design for Floating Hospital

↗ Provided full HVAC system design for **Sea Wave Floating Hospital**. The scope included complete system layout, load calculations, and technical specifications to ensure reliable, efficient, and code-compliant climate control throughout the vessel.

↗ Project Summary

- Full HVAC system design for the hospital ship
- Cooling load and airflow calculations
- Preparation of technical specifications and drawings
- Ensuring system reliability and operational efficiency

12.3.2 Naval Forces Museum – Full Electromechanical Design Package

↗ Provided a complete electromechanical design package for the **Naval Forces Museum**. The scope included HVAC, plumbing, electrical, and firefighting systems, ensuring code compliance, coordinated integration, and efficient operation throughout the facility.

↗ Project Summary

- Full design of HVAC, plumbing, electrical, and firefighting systems
- Preparation of detailed drawings and technical specifications
- Coordination across all disciplines for seamless integration
- Compliance with national and international standards

12.3.3 Naval Forces Missile Workshop – Supervision (HVAC & Compressed Air)

↪ Provided supervision services for HVAC and compressed air systems at the **Naval Forces Missile Workshop**. The scope included on-site monitoring, quality control, and verification of system installation to ensure compliance with design specifications and operational standards.

↪ **Project Summary**

- Supervision of HVAC and compressed air system installation
- Quality control and compliance verification
- Coordination with contractors and site teams
- Ensuring operational efficiency and system reliability

12.3.4 Al Nabila Hotel – As-Built & System Verification (HVAC, Firefighting, Plumbing)

↪ provided comprehensive As-Built documentation, verification, and review services for the **Al Nabila Hotel**, covering HVAC, firefighting, and plumbing systems across all floors, including the kitchen. The scope included preparing initial As-Built drawings, reviewing and updating routes for ducts, sprinklers, and piping, resolving site conflicts, and coordinating with consultants to ensure compliance with design specifications and applicable standards. Technical tables, quantity verifications, and updates were issued to the owner and consulting engineers to support accurate system documentation and future maintenance.

↪ **Project Summary**

- Preparation and review of As-Built drawings for HVAC, firefighting, and plumbing systems
- Verification of ductwork, suspended units, fresh air, exhaust lines, and sprinkler locations
- Review and adjustment of routes to avoid conflicts with other services
- Coordination with consultants and engineers for compliance checks
- Issuance of quantity tables and technical documentation to owner and consultants
- Support for accurate record-keeping and future maintenance

12.3.5 Medical Commission Building – Naval Forces Hospital – HVAC Design

↪ Provided complete HVAC system design for the Medical Commission Building at the **Naval Forces Hospital**. The scope included system layout, load calculations, and technical specifications to ensure reliable, efficient, and code-compliant climate control throughout the facility.

↪ **Project Summary**

- Full HVAC system design and drawings
- Cooling load and airflow calculations
- Preparation of technical specifications and BOQs
- Ensuring compliance with operational and safety standards

12.3.6 Rich Bake Factory – HVAC System Design

↪ Provided full HVAC system design for **Rich Bake Factory in Al-Sadat**. The scope included system layout, load calculations, equipment selection, and technical specifications to ensure efficient, reliable, and code-compliant climate control throughout the facility.

↪ **Project Summary**

- Complete HVAC system design and drawings
- Cooling load and airflow calculations
- Equipment selection and technical specifications
- Ensuring operational efficiency and compliance with standards

12.3.7 Rich Bake Factory – HVAC System Design

↪ Provided full HVAC system design for **Rich Bake Factory in Al-Obour**. The scope included system layout, load calculations, equipment selection, and technical specifications to ensure efficient, reliable, and code-compliant climate control throughout the facility.

↪ **Project Summary**

- Complete HVAC system design and drawings
- Cooling load and airflow calculations
- Equipment selection and technical specifications
- Ensuring operational efficiency and compliance with standards

12.3.8 Industrial automation and facility management consulting for various sectors

Truth Integrated Engineering Solutions

Consultant

Prof. DR. Eng. Hany Saad

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