

COMPANY OVERVIEW

Engineering knowledge. Practical project delivery.

Engineering and design solutions in Qatar: BIM coordination, ETAP power system studies and healthcare fit-out.



ILLUSTRATIVE BIM CONCEPT | Not a completed company project

Modern Synapse connects design, engineering analysis and project delivery. Our solutions combine BIM coordination, ETAP-based power studies, structural design and MEP engineering with specialist healthcare fit-out, construction and renovation.

MINISTRY OF FINANCE CLASSIFICATION

Classified as a supplier and service provider by the Government Procurement Regulatory Department, Ministry of Finance, Qatar.

Category 7: wholesale of electronic and telecommunications equipment and spare parts; wholesale of office furniture. Valid until 28 November 2026.

LEADERSHIP

Technical depth. Accountable leadership.

Khalid Akeel | General Manager | BIM Manager

Khalid Akeel holds a master's degree in Structural Engineering and brings over ten years of engineering, management and leadership experience across Syria, Turkey and Qatar. As BIM Manager, he leads Building Information Modelling (BIM) coordination across architectural, structural and MEP design. His work spans design, fit-out and furnishing spaces. He has personally undertaken both design and project execution, connecting design intent with practical delivery on site. As General Manager of Modern Synapse, he brings this multidisciplinary perspective to the company's engineering, construction and interior projects. He is registered as a Civil Engineer with Qatar's Ministry of Municipality.

Engineering and delivery perspective

BIM management and multidisciplinary coordination; structural engineering education; management and leadership; design and furnishing; hands-on execution across three regional markets. His experience encompasses both design development and the practical coordination of work on site.

Mr. Abdul Aziz Al Hajaji | Chief Executive Officer

A Qatar-based entrepreneur and business leader since 2013, with ventures spanning import and export, construction and trading. His experience has a strong focus on medical supplies, including nearly a decade supplying government entities.

ENGINEERING & SERVICES

A clear scope. Relevant capability.

Engineering design & BIM solutions

Architectural, structural and MEP model coordination; clash and interface review; coordinated drawings and design communication. Steel structure calculations, technical reports and lighting design support the project scope.

Healthcare & medical fit-out

Hospital, clinic, health centre, pharmacy and medical office fit-out; medical project planning, coordinated MEP works, radiation shielding, lead sheets and lead-lined doors.

Construction, interiors & renovation

General construction, steel structures, commercial and residential interiors, refurbishment, finishes, rectification and maintenance. Interior design and furnishing complement the construction offer.

ETAP power system studies

Load flow and voltage assessment; short-circuit and equipment-duty review; protection coordination and relay-setting review. Agree network data, operating scenarios, licensed study tools, competent resources and deliverables for each assignment.

Additional supply solutions

Office furniture, electronic equipment and related spare parts. Confirm specifications, quantities, compatibility and availability for each enquiry.

BIM SOLUTIONS

One model. Connected disciplines.



ILLUSTRATIVE CONCEPT | Building information modelling

Design coordination

Bring architectural, structural and MEP information into a coordinated model so interfaces and spatial constraints can be reviewed together.

Clash and interface review

Review model conflicts and access requirements, assign issues to the responsible discipline and track agreed resolutions through model revisions.

Typical deliverables: coordinated models and drawings, model views and an agreed issue register. Model requirements, information detail, exchange formats and responsibilities are confirmed for each project.

ETAP SOLUTIONS

Understand the network. Coordinate the protection.



ILLUSTRATIVE ENGINEERING WORKSPACE | Not an ETAP screenshot

Load flow & voltage assessment

Review bus voltages, transformer and cable loading, power factor and network losses under agreed operating cases.

Short-circuit & equipment duty

Assess fault levels against the ratings of switchgear and protective equipment, using the agreed calculation basis.

Protection coordination

Review protective-device characteristics, grading and relay settings against the operating network and project criteria.

Typical outputs: study report, annotated single-line diagrams, loading and fault tables, coordination plots and proposed setting schedules. Team, licensed tools, input data and deliverables are agreed before work begins. ETAP is a third-party software trademark; no vendor partnership is implied.

CLINICAL ENGINEERING ILLUSTRATIONS

The right image. The right service.



Dental equipment installation

Dental chair installation work reported by management.



X-ray preventive maintenance

Management reports six-monthly checks covering the tube head, electrical and electronic parts, and device safety.



Medical gas equipment maintenance

Management reports three- or six-monthly maintenance, according to the plan: compressor and suction equipment condition and oxygen, nitrous oxide and air system leak checks.

Supplied project photographs illustrate the stated service categories; they are not maintenance certificates or proof of specific inspection results. Clinical engineering service availability remains subject to applicable licensing and approvals. Frequencies above describe management-reported practice, not a universal maintenance requirement.

SELECTED COMPANY EXPERIENCE

A relevant Qatar project portfolio.

Selected records from the supplied company project register. Company projects are distinct from leadership experience gained with previous employers.

Polyclinic Fit-Out, Al Muntaza

DOC Medical Centre | 2026

Healthcare Interiors & MEP Works, Al Khor

Health Assistance Medical Center | 2025

Medical Centre Interior Fit-Out, Duhail

DOC Medical Centre | 2025

MRI Room Interior & Structural Works

My Doctor Medical Center | 2024

Health Centre Fit-Out, West Walk

My Doctor Medical Center | 2025

Villa Renovation, Al Qutaifiya

Eng. Mansour Al Marsooqi | 2025

Accommodation & Storage Building, Birkat Al Awamer

Ghanem Shaheen Al Ghanem | 2025

Engineering Consultancy

Arnold Decoration | 2024

Dates follow the supplied register. Completion status, contractual role and acceptance evidence require project-level confirmation; no contract values or completion claims are inferred. Full portfolio: www.modern-qa.com/projects.html

ORGANISATION & DELIVERY

Clear responsibilities. Scope-based resourcing.

Chief Executive Officer: Mr. Abdul Aziz Al Hajaji

General Manager: Khalid Akeel, master's in Structural Engineering

Engineering & Project Delivery

Engineering coordination, project planning, construction supervision, procurement, testing coordination and handover.

Quality Assurance & Quality Control

Quality planning, document review, material and installation inspections, test records and corrective action.

Health, Safety & Environment

Risk assessments, work methods, inductions, toolbox talks, inspections and emergency planning.

Finance, Administration & Commercial

Accounts, project budgeting, contracts coordination, personnel records and corporate documentation.

Business Development & Tendering

Client relations, vendor registration, estimating and technical and commercial proposals.

These are delivery functions, not a claim that five staffed departments exist. Dedicated personnel, competencies and reporting lines must be named for the applicable scope. Refer to the accompanying organisation chart.

QUALITY & HSE

Documented controls. Evidence-led assurance.

Quality management

Modern Synapse is progressively implementing documented controls informed by ISO 9001 principles. The company is not currently ISO certified. Project-specific requirements establish the applicable reviews, inspections, acceptance criteria and records.

Delivery control sequence

Confirm scope and specifications; plan quality and safety controls; review drawings and calculations; verify suppliers and materials; record inspections and tests; close nonconformances and approved changes; compile handover information.

HSE responsibilities

Assign responsible personnel, establish task risk assessments and work methods, verify competency, brief the workforce and coordinate permits and emergency arrangements applicable to the work. Contract-specific HSE requirements must be assessed before committing resources.

Supporting evidence

Provide actual project records, qualifications, appointments, training and inspection evidence relevant to each application. This profile does not certify a particular HSE performance history or staffing level.

Photographic integrity: no AI-added worker PPE images or reconstructed project photographs are included in this registration profile. Supplied photographs illustrate equipment and work categories; they do not substitute for compliance records. Design visualisations in the following portfolio pages are labelled separately and are not completion evidence.

DESIGN PORTFOLIO | OFFICE FIT-OUT

A considered workspace.

Supplied office fit-out design visualisations: executive workspace, meeting area, wall finishes, lighting and furnishing.



DESIGN VISUALISATION | Executive office overview



Supplied design portfolio. Visualisations show design intent and are not verified completion photographs. Executive Office Design & Fit-Out is listed in the company design portfolio. Refer to the website for the project record.

DESIGN PORTFOLIO | FLOWER SHOP, SYRIA

A retail space in bloom.

Current design-and-build project in Syria, led by General Manager Khalid Akeel. Work is in progress. Supplied visualisations show the planned displays, lighting and reception.



DESIGN VISUALISATION | Illuminated retail displays



Current project experience of the General Manager. Design visualisations show intent, not completed work. Presented separately from Modern Synapse company project references.

CONTACT & APPLICATION USE

Ready for the next conversation.

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This profile supports company evaluation and vendor registration. The Ministry of Finance classification applies to the two activities stated in the certificate. QatarEnergy registration, qualification and tender evaluation are separate processes.