



EXTECH

EXPERT INDUSTRIAL TECHNOLOGIES LLC

DOHA, QATAR

Engineering Confidence for Critical Industrial Assets

Technical, Quality, Reliability and HSE Advisory

OIL & GAS • PROCESSING PLANTS • PETROCHEMICALS • POWER & UTILITIES



Experience-led industrial advisory backed by 37+ years of industry leadership

www.extechdoha.com

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Experience-Led Industrial Advisory

EXTECH provides independent technical reviews, quality management, mechanical integrity verification, asset reliability, and HSE advisory services across Qatar and the GCC.



Company Overview

EXTECH Expert Industrial Technologies LLC is a Qatar-based industrial consulting firm providing independent, experience-led advisory services across quality management, engineering, mechanical integrity, asset reliability, HSE and project execution.

We support asset owners, operators, EPC contractors, construction organizations and equipment suppliers in identifying technical risks, strengthening project controls and improving the reliability of critical industrial assets. Our work is informed by applicable ASME, API, ISO, client and local regulatory requirements.

Our recommendations combine recognized engineering practices with practical experience gained across engineering, procurement, fabrication, construction, commissioning, maintenance and operational environments.

Industries We Support

- ✦ Oil & Gas and Processing Plants
- ✦ Petrochemical and fertilizer plants
- ✦ Power generation and desalination facilities
- ✦ Industrial manufacturing and processing facilities
- ✦ Fabrication shops and equipment suppliers
- ✦ Major infrastructure and utility assets





Why **EXTECH**

EXTECH is an industrial engineering and management consultancy headquartered in Doha, Regional Support. We provide specialized support in third-party technical reviews, quality management systems, piping and mechanical engineering, plant reliability, HSE, constructability, shutdown planning and project execution assurance.

Our strength lies in combining extensive industry experience with applicable ASME, API, ISO and client requirements to produce clear findings and practical, site-relevant recommendations.

Independent Technical Judgment

We provide objective findings based on available evidence, applicable requirements and professional engineering judgment.

Practical Recommendations

We focus on solutions that can be implemented by engineering, construction, quality, maintenance and operating teams.

Confidentiality & Reliability

We protect client records and sensitive information while meeting agreed commitments and maintaining consistent standards.

37+ Years Leadership

Backed by extensive experience across engineering, procurement, fabrication, construction, commissioning and maintenance.

Integrated Expertise

Coordinated support across engineering, quality, mechanical integrity, reliability, HSE and project execution controls.

Regional Support

Responsive regional service with a deep understanding of regional industrial requirements and operating environments.

Leadership and personnel experience referenced in this profile includes professional experience gained before the establishment of EXTECH.

A Message from Our Founder & CEO

At EXTECH, we believe that technical quality, safety and mechanical integrity are essential to the successful delivery and operation of every industrial asset.

EXTECH was established to provide clients with practical, independent and experience-led technical support across complex industrial projects and operating facilities. As industrial systems become more complex, early identification of design, quality, constructability and reliability risks is increasingly important. Independent technical review can help prevent rework, strengthen project decisions and reduce avoidable operational exposure.

With more than 37 years of experience in quality assurance, quality control and industrial project leadership, I have seen how timely technical intervention can protect schedules, strengthen compliance and improve long-term asset performance.

"Technical quality and safety are not checklist items; they are the foundation of operational success."

Our role is to bridge the gap between engineering intent and site execution. We examine not only whether a design appears technically acceptable, but also whether it can be fabricated, constructed, inspected, maintained and operated safely and effectively. By assessing project documentation and site conditions against applicable codes, specifications and recognized industry practices, we help clients identify gaps and reduce mechanical, quality and operational risk.



Rama Prasad Bobba
Founder and Chief Executive Officer



Our Engagement Approach

We follow a structured, 5-step methodology to ensure that technical reviews and quality audits provide actionable findings and measurable value to project and operations teams.

1. Understand

We confirm the client's objectives, project stage, concerns, available documentation and expected deliverables.

2. Assess

We review applicable drawings, specifications, calculations, procedures, records and available site conditions.

3. Identify

We document technical, quality, safety, reliability and execution gaps according to their significance.

4. Recommend

We provide practical, prioritized and traceable recommendations appropriate to the client's requirements.

5. Support Closure

Where requested, we review responses, monitor agreed actions and assist with closure verification.

Typical Deliverables

- ★ Technical-review reports
- ★ Audit and assessment reports
- ★ Comment registers & risk logs
- ★ Gap assessments & corrective actions
- ★ Closure and verification reports
- ★ Executive briefings & findings



Greenfield Design & Constructability

Identify Design and Execution Risks Before Construction

Design gaps identified after procurement or during construction can lead to rework, schedule disruption, material changes and avoidable cost. Early independent review provides an opportunity to identify concerns before they affect site execution.

EXTECH provides independent design and constructability reviews to assess technical alignment, interdisciplinary coordination, maintainability, access and execution constraints before procurement and construction progress.

Typical Review Areas

- ✦ Design basis & specification consistency
- ✦ Piping and equipment arrangement
- ✦ Access, maintenance & operating clearances
- ✦ Constructability & installation sequencing
- ✦ Discipline-interface & clash concerns
- ✦ Material & equipment specification review
- ✦ Potential field-rework risks

Client Value

- ✦ Earlier identification of design gaps
- ✦ Better constructability and maintainability
- ✦ Reduced risk of field modifications
- ✦ More informed procurement & execution decisions





Brownfield Mechanical Integrity

Modification, Alterations and Maintenance repairs

Brownfield modifications and maintenance activities can introduce risks when installed conditions, records or test results do not fully match approved engineering requirements. Independent verification helps identify outstanding concerns before startup.

EXTECH supports alterations, maintenance repairs, and pre-startup readiness reviews by examining relevant documents, test records and physical installation conditions against approved project requirements.

Typical Verification Activities

- ✦ Physical walkthroughs and installation checks
- ✦ Approved drawing and field-condition comparison
- ✦ NDT and inspection-record review
- ✦ Pressure-test package review
- ✦ Material & equipment traceability checks
- ✦ Punch-list and outstanding-action review
- ✦ Equipment readiness assessment before startup

Final operating and startup authorization remains the responsibility of the asset owner and designated approving authorities.

Oil & Gas and Processing Plants

Supporting Safe and Reliable Hydrocarbon & Chemical Operations

EXTECH supports Oil & Gas, Processing Plants, and downstream organizations with technical and quality advisory services across projects, modifications, maintenance and operating assets.

Our work may include technical-document reviews, quality and integrity assessments, utility-system evaluations, storage and piping reviews, vendor surveillance and shutdown-planning support.

Areas of Support

- ✦ Technical specification and design reviews
- ✦ Piping and mechanical-integrity assessments
- ✦ Processing plant & storage-system advisory
- ✦ Pipeline integrity-management support
- ✦ Utility and process-system reviews
- ✦ Quality assurance and vendor surveillance
- ✦ Shutdown and maintenance advisory





Asset Integrity & Reliability

Reliability-Centered Maintenance and Risk-Based Inspection Support

EXTECH supports operators in developing and reviewing reliability-centered maintenance and risk-based inspection frameworks with reference to API 580, API 581 and applicable asset-management requirements.

Our advisory work can include equipment-criticality review, failure-mode analysis, inspection-strategy assessment and preventive-maintenance optimization to support informed decisions and reduce avoidable operational risk.

Areas of Support

- ✦ Equipment criticality assessment
- ✦ Inspection planning and FFS assessments
- ✦ Inspection-history & degradation review
- ✦ RBI framework development & assessment
- ✦ Preventive-maintenance strategy review
- ✦ Reliability performance & bad-actor analysis

Client Value

- ✦ Risk-based use of inspection resources
- ✦ Better visibility of critical equipment risks
- ✦ Improved maintenance prioritization
- ✦ Reduced exposure to avoidable downtime



Quality Management & Assurance

Quality Systems, Plans and Technical Controls

A well-structured quality management system creates clear responsibilities, consistent controls and reliable records across project and operational activities. EXTECH develops and reviews quality-management frameworks for contractors, vendors, fabricators and industrial operators based on their scope, risks and contractual requirements.

We review Project Quality Plans, Inspection and Test Plans, material traceability systems, welding documentation, inspection records and nonconformance controls to support alignment with project specifications and applicable standards.

Core Services

- ✦ Quality-management-system development and review
- ✦ Project Quality Plan preparation and assessment
- ✦ Inspection and Test Plan development and verification
- ✦ WPS, PQR and welder-qualification review
- ✦ Material certification and traceability audits
- ✦ Nonconformance and corrective-action review
- ✦ Internal audit and ISO-readiness support

Vendor & Supplier Quality System

Assess Supplier Capability Before Quality Problems Reach Site

EXTECH conducts independent assessments of fabrication shops, equipment suppliers and subcontractors to evaluate their quality systems, technical capability, personnel qualifications and readiness to satisfy project requirements.

Our reviews may examine welding qualifications, NDT arrangements, calibration controls, material traceability, inspection resources, document control, nonconformance management and previous performance records.

Typical Deliverables

- ✦ Supplier capability assessment report
- ✦ Findings categorized by significance
- ✦ Documented evidence and observations
- ✦ Corrective-action recommendations
- ✦ Follow-up and closure verification

Client Value

- ✦ Better supplier-selection decisions
- ✦ Earlier identification of quality-system gaps
- ✦ Reduced risk of nonconforming supply
- ✦ Stronger visibility across the supply chain



HSE & Risk Advisory

Practical Safety, Environmental Frameworks & HAZOP/HAZID Support

Industrial organizations require clear responsibilities, procedures and controls to protect people, assets, operations and the environment. EXTECH supports the development and review of HSE management systems with reference to ISO 14001, ISO 45001, applicable Regional requirements and client standards.

HAZID, HAZOP and Risk-Study Support

Managing major accident hazards requires a structured process for identifying credible scenarios, evaluating safeguards and tracking required actions. Subject to the availability of appropriately qualified specialists, EXTECH can support HAZID, HAZOP and related risk-review workshops through facilitation, technical participation, documentation and action tracking.

HSE Advisory Deliverables

- ♦ HSE policies, manuals & procedures
- ♦ Legal & client-requirement registers
- ♦ Risk-assessment & control frameworks
- ♦ Environmental & waste plans

Workshop Support Scope

- ♦ Node & system organization
- ♦ Session recording & minutes
- ♦ Recommendation-register management
- ♦ Closure tracking & reporting

Formal acceptance of study outcomes and authorization to operate remain the responsibility of the asset owner and relevant approving authorities.



Engineering Reviews

Piping Stress Analysis & Pressure Vessel Design Reviews

Piping Stress Analysis Review

Piping systems may be affected by pressure, weight, thermal movement, wind, seismic loading and equipment-interface constraints. EXTECH provides independent piping-layout and CAESAR II stress-analysis reviews with reference to ASME B31.3, ASME B31.1 and client specifications.

- ✦ ASME B31.3 / B31.1 code checks & CAESAR II model review
- ✦ Load-case, allowable stress, nozzle-load & spring-hanger assessment

Pressure Vessel and Heat Exchanger Design Review

EXTECH reviews mechanical drawings, equipment datasheets, material specifications and available calculation records for pressure vessels, heat exchangers and storage tanks with reference to ASME Section VIII, API 650 and TEMA requirements.

- ✦ Design condition, material selection & drawing consistency review
- ✦ Nozzle orientation, welding, NDT & testing requirement checks

Shutdown & Turnaround Advisory

Supporting Safe, Controlled and Timely Maintenance Events

Shutdowns and turnarounds involve tightly coordinated scopes, large workforces, multiple contractors and significant safety, quality and schedule exposure. EXTECH provides independent advisory support during planning, preparation, execution and startup-readiness stages.

Our services may include work-scope review, quality-plan assessment, contractor-readiness checks, inspection coordination, documentation review, field surveillance, punch-list management and repair review and assessments.

Areas of Support

- ✦ Scope and work-package review
- ✦ Quality & inspection-plan assessment
- ✦ Contractor and vendor readiness
- ✦ Welding, NDT & material-control review
- ✦ Daily quality and progress observations
- ✦ Punch-list & outstanding-work tracking
- ✦ Mechanical completion support
- ✦ Repair review and assessments



HSEQ Policy Statement

Protecting People, Assets and the Environment

At EXTECH, health, safety, environmental responsibility and quality are integrated into the planning and delivery of every engagement. We are committed to protecting our personnel, clients, contractors, assets and the environment while performing office-based reviews, meetings, audits and site activities.

Our HSEQ Commitment

We aim to prevent injuries, incidents, environmental harm and quality failures through appropriate planning, hazard assessment, competent personnel, clear communication and compliance with applicable client and site requirements.

- ✦ Stop work when conditions are unsafe
- ✦ Assess risks before site activities begin
- ✦ Protect confidential & controlled information
- ✦ Report concerns accurately & promptly
- ✦ Learn from findings and continually improve
- ✦ Follow applicable legal, client and site requirements

HSEQ Management Approach

EXTECH's internal processes are informed by the principles of ISO 9001 for quality management, ISO 14001 for environmental management and ISO 45001 for occupational health and safety. This structured approach supports consistency, document control, technical review, risk management and continual improvement.

Leadership Profile



Mr. Rama Prasad Bobba

FOUNDER AND CHIEF EXECUTIVE OFFICER

Mr. Rama Prasad Bobba brings more than 37 years of experience in quality assurance, quality control and industrial project leadership across Oil & Gas and related sectors.

His experience spans engineering, procurement, fabrication, construction, commissioning and maintenance, with particular strength in quality management systems, contractor and vendor surveillance, welding and material control, technical compliance and multidisciplinary team leadership.

Discuss Your Requirements with EXTECH

Whether planning a project, reviewing a design, or strengthening asset reliability, EXTECH is ready to provide focused, independent support.

EXTECH Expert Industrial Technologies LLC

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