Enrich your satisfaction by leveraging the

Experience, Expertise & Excellence of

the automation professionals...

**GT**A







Gulf Automation System exceeding expectations...

# We play a vital role in providing solutions to our partners and clients

Gulf Automation System (GAS) is a pioneer in Industrial Automation and Applications Development that provides world-class solutions to global clientele in the areas of automation systems design, assembly and integration services. The thrust areas of the company are Design, Development, Maintenance, System Integration and Consulting in Industrial Automation and Application System domains. Gulf Automation Systems is headed by a team of dynamic, experienced and industrial technocrats who gained experience from global leaders across the countries such as Americas, South-East Asia, Middle-East and India in the areas of design, detail engineering, installation & commissioning and project management. Achieving continuous excellence through experience and global expertise for our clients' success is our motto.

### Our Vision

Our vision is to become a prominent control system integrator in middle-east region through our excellence in engineering and quality project services for Oil and Gas, Power, Water and Infrastructure sectors

### **Our Mission**

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Our mission is to provide a comprehensive and state-of-the-art software solutions and services to our clients, which are customized and especially designed to their needs and committed to quality results.

From the visionary...

At Gulf automation, we innovate and implement best-in-class strategies that suits well and beyond the needs of the client. To be efficient and make our customers successful, we think beyond the machines in order to deliver the true excellence and achieve customer satisfaction. Our approaches leverage experience, expertise and technology

Chief Executive Officer





### **GAS - An overview**

Year of incorporation	2007
Countries of	Qatar, Kuwait, UAE
Operation	and India
Business	Industrial Automation,
Domains	Power Automation
Combined years of Leadership Experience	Two decades
Verticals	Oil & Gas, Power, Petrochemical, Refineries, Water & Waste Water
Certifications	ISO 9001:2008,
and	ABB, GE -IP, Wonderware
Recognitions	T-Box, Siemens & Honeywell

# **GAS Foundation**

GAS's Foundation is made of vision, mission, values, commitment and guidelines strengthening our decision making process ethical, sustainable, adherable in stepping into future. We developed a culture which nurtures every shareholder with equal, intergral and independant contributions towards visionary of organization.

# Our Certifications

# Health, Safety and Environment

GAS always prioritize Health, Safety and the Environmental policies as our organization is committed towards providing all of its shareholders a safe and sustainable business environment

The culture fostered throughout GAS is a reflection of the corporate policy documents, which endorse proactive management and awareness at the planning stages. Proper planning addresses HS&E issues that may impact employees, visitors, general public and the local environment at both office and field locations.

# Policies & Principles

People are the most important asset in GAS for whom a safe working environment is a must as per the organizational requirements. With an integrated management system, health, safety, environment and quality form an integral component of all business planning, engineering practice and day-to-day office and field work procedures. In GAS management system, the supporting guidelines & procedures are detailed that provide guidelines for safety management in a direct way. These guidelines and procedures address emergency planning, hazard identification, incident reporting and recording, workplace inspection and auditing to name a few. Our approach is consultative and we continuously strive to improve safety. At GAS, safety is not a choice, but a practice, as safety at work place is a way of living.

# Quality Management Principles

GAS Quality Management System is based on ISO 9001:2008 principles that can be summarized as follows

### Customer Focus

Ensuring that the project team understands and meets Contractual requirements and strives to exceed customer expectations.

#### Leadership

The project leadership team establishes unity of purpose and direction for the team. They should create and maintain the internal environment that enables the team to be fully involved and maximize the utilization of their abilities to the benefit of the project and the fulfillment of its objectives.

#### Process Approach

All activities on the project are considered as a sequence of interlinked processes with an input, output and the criteria resources and method to produce the required output.

#### System Approach to Management

Planning, documenting and implementing a management system that is understood by the team and is effective in efficiently attaining project objectives consistent with the maintenance of customer satisfaction.

#### Continual improvement

By measurement, review and analysis of results against project performance making regular improvements to the management system



# Industrial Automation

#### **Solutions**

Project Management: resource/manpower planning & allocation, Schedule planning & control and co-ordination with client/EPC/consultant/vendors

Control systems: DCS and PLCs of Invensys, Honeywell, ABB, Siemens, GE-IP, Allen Bradley and Schneider

3 DCS/PLC/HMI/SCADA application design, development and integration

Basic and detailed engineering design, Brown-field engineering modifications and documentation.

Substation: Substation control system Fibre optic network, DMS and protection relay system

Review and testing of Logics against Interlock Logic Diagrams, Interlock Process Description, Cause and Effect and P&IDs

Re-engineering, Installation, Pre-commission, commissioning, start-up support and training

INTOOLS Administration, Procurement & Selection of Field instrument/devices

FAT & SAT Support, Annual Maintenance Contract (AMC)

Gulf Automation System Co. is one of our major suppliers for control panels and its logic design for water & waste water treatment plants. We have been satisfied with their products & services and would recommend them for other similar projects in the future

-Project Manager, Metito

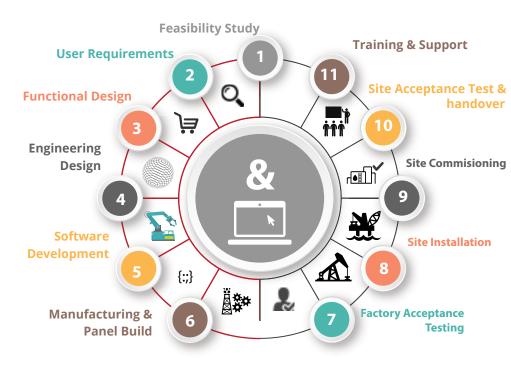
#### Gulf Automation System specializes in offering End-to-End Industrial Automation solutions for clients across a wide range of verticals in a systematic and professional manner

We ensure customized, faster, intelligent and flexible engineering solutions delivered within the time committed to assure outcomeoriented, affordable and time-savvy results. Our Industrial Automation Experts support End-to-End activities such as Design & Development, System Integration, Consulting, Outsourcing, Maintenance, Bug fixing and Support for DCS, PLC, SCADA, HMI, followed by third party interfaces for process industries.

### What makes us unique?

- Internationally recognized and certified by many global companies
- Standardized operating procedures, Policies and Quality Management Systems in place
- Proven track record as a solutions partner of excellence for more than a decade
- Experienced Professionals with wide exposure in Industrial automation
- All GAS engineers have undergone 80 hours of formal training/year
- Training and hands on at least 3 major OEM's control system equipments
- ☑ Well versed with industrial standards of IS, BS, ANSI, IEC, ISA, IEEE, CENELEC

## How we execute?



# GAS provides comprehensive solutions under the applications development domain that range from product development to testing of various Systems, tools and configurations

We assure our clients with a reliable, affordable and longlasting holistic solution that meets their current and future requirements. With our industrial experience and expertise, we provide exclusive extended support that a client requires irrespective of their business size.

### Solutions



## How we do?

Having experienced in OEMs, experts at GAS dedicate their expertise in putting the latest technologies that works best for you. We help OEMs, and SIs with a wide range of applications development solution that include prototype, design, and validating solutions more easily. We are specialized in robust Applications Design & Development, Migration, Bug fixing Re-engineering Support and Product Testing.

#### How we differ ?

- Contract Con
  - major OEM's control system equipment
- Certified with global leaders recognized by International authorities
- Streamlined operating procedures of global practice and authorized Quality Management Systems in place
- ☑ Proven track record with 10+ years of experience serving global clientele

# Applications Development

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"Thanks a lot for Gulf Automation Systems team for the neat ICSS engineering, presentation & training for the complex brown field project. Appreciate all GAS team efforts, commitment, cooperation and flexibility throughout the project phases: engineering, commissioning, startup and training



"The experience, knowledge and dedication of the GAS team was instrumental in executing a professional job towards the Control and Safety Systems of the project" - Project Manager, Technip

# Technical Infrastructure

## GAS Technical Infrastructure

We strongly believe in learning, unlearning and re-learning to align with the daily-growing needs of clients who expects tomorrow's solutions today in a 360 degree perspective. We keep our engineering team abreast with latest developments in the automation domain through State-of-the-art automation lab that enables, our team of Subject Matter Experts and Engineers, access a wide range of resources of both kinds, knowledge as well as equipment to research, design and test the best fit solutions as per client's custom requirements.

# We constantly update our knowledge pool through...



- Network and Protocols - Software and Hardware

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- Various third Party System Interfaces using OPC / MODBUS RTU/ GSM / PROFIBUS

- In-House hardware setup of PLCs, Foxboro DCS and SIS Triconex controllers for Engineering, Programming, Trouble shooting and Maintenance training



#### Gulf Automation System

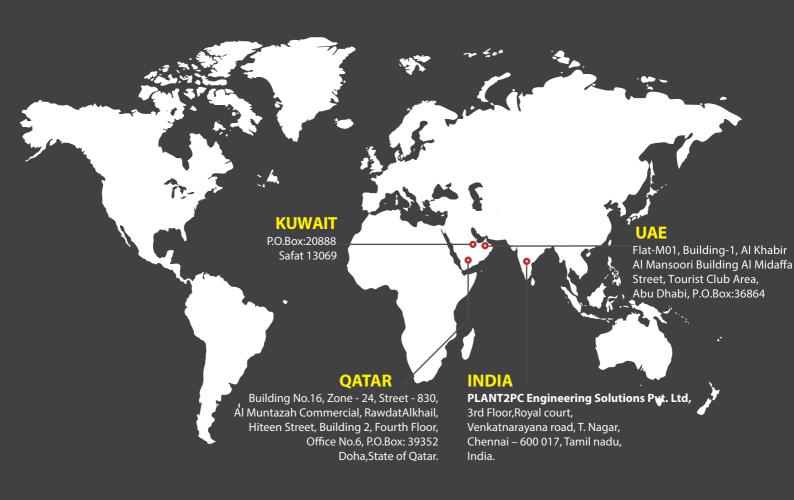
#### Selected Projects which GAS executed...

GAS is widely acknowledged for its ability to provide the kind of solutions which a client expect. Our experts understand the custom requirements, plan the precise strategy, develop the model, test and implement in real-time scenario. Post projectexecution, we provide extended support through on-site visits and training to the technocrats. Some of the projects for your reference are listed here.

# Projects Executed...

Project Title	Name of the Client	Sector	Scope	Technology used
ICSS Modification for ATR steam purge nozzle upgrade and Damper control problems project	GTL plant in Ras Laffan Industrial city	Oil and Gas	<ul> <li>Site Survey, Adequacy check and report, Supply of IA Foxboro and Triconex SIS Hardware, Software modification, testing, Hardware installation, commissioning, associated cable laying and wiring</li> <li>Red line mark-up on the Logic diagram after the implementation.</li> <li>FAT, SAT and Start-up support</li> </ul>	IA Foxboro DCS and Triconex SIS
ICSS Modification for Plant wide Maintenance Override Switch philosophy implementation and Single point of failure to avoid plant trip	GTL plant in Ras Laffan Industrial city	Oil and Gas	<ul> <li>Shall arrange and facilitate detail design review meetings where all design specifications are reviewed and accepted</li> <li>Shall generate detailed software configuration specifications for MOS philosophy modifications for IA Foxboro DCS &amp; SIS Triconex controllers</li> <li>Offline implementation using test setup for simulation and testing</li> <li>Shall facilitate FAT &amp; SAT with appropriate functional test procedures.</li> </ul>	IA Foxboro DCS and Triconex SIS
Dukhan East Contract Tunnel Ventilation System	Ashghal	Infrastructure	<ul> <li>Supply, testing and commissioning of Hot Redundant PLC Control System to control and automate Qatar Academy Tunnels</li> <li>Design, Control and monitoring of Ventilation fan</li> </ul>	SIEMENS S7-400 PLC
Doha Festival City	Bawabad Al Shamal Real Estate Company WLL	Water and waste water	<ul> <li>Supply, testing and commissioning of Redundant PLC control system</li> <li>Design, Control and monitoring of Energy Transfer station and Tertiary Pumping Station</li> </ul>	
Chlorination Control System	Ashghal	Water and waste water	<ul> <li>Supply, testing and commissioning of Hot Redundant PLC and SCADA Control system</li> <li>Design, Control and monitoring of RO systems</li> </ul>	SIEMENS S7-400 PLC & SCADA
Lusail CP-7A1A,CP-06B,CP- 5B	Lusail Real Estate Development Company	Lusail Real Estate Development Company	<ul> <li>Supply, testing and commissioning of RTU control system</li> <li>Design, Control and monitoring of Flow metering and District metering</li> </ul>	GE PAC-8000 RTU
QSTP Technical-4 Building	Qatar Foundation Research and Development	Water and energy Development	Design and Engineering, Assembly, Supply, Testing and Commissioning of Rx3i Redundant system for monitoring and control of 11 kV switchgear panels, Rx3i Simplex system for monitoring and control of Energy transfer station and chilled water distribution system	GE RX3i Series with smart sensors and smart control actuators and PLC

# How can we improve your process today?



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Gulf Automation System exceeding expectations...

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