


CURRICULUM VITAE – SAMAN JAFARI

PERSONAL INFORMATION

SAMAN JAFARI



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 <https://www.xing.com/profile/>

Date of birth: 17 Sep. 1982

JOB APPLIED FOR SENIOR CONTROL & INSTRUMENTATION ENGINEER

CAREER VISION To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity for continuous learning.

EMPLOYMENT HISTORY

OCT 2016–PRESENT

JOB TITLE: SENIOR CONTROL & INSTRUMENTATION ENGINEER

COMPANY: SAZEH CONSULTANTS (EPC COMPNAY), TEHRAN, IRAN

Address: No. No.31, Javad Sarafraz St., Dr. Beheshti Ave. Tehran 15876-83133 Iran

Website: <https://sazeh.co/>

Job Description: Designing Control & Safety System & Measuring Instruments for Oil & Gas Industrial Plant (2016-Present)

Responsibilities:

- 1- Preparation of Detail-design documents
- 2- Preparation of MR, TBE, for ICSS (DCS, ESD, FGS) proposed by YKG, HNW, ABB-HIMA.
- 3- Review of Honeywell ICSS deliverables at Basic Design stage (all Functional design Spec., General Architecture, etc.) and as well as at Detail design stage (detail architecture, I/O Assignment, Cross Wiring, Cabinet documents, Network Cables, etc.)
- 3- Coordinating all ICSS interfaces with other disciplines, vendor packages Systems such as Siemens Compressor (GT400, GT600) and Instrument team
- 4- Participation in HAZOP/HAZID, SIL Analysis;
- 5- Participation in Control and Safety System TAT (Typical Acceptance Test) and Factory Acceptance Test (FAT);
- 6- Coordinating of ICSS Site Acceptance Test (SAT) including checking of Cabinet installation (including system, marshalling, PDP, OWS, etc.), Hardware installation of Prefab. and Field Cables, Power supply cabling (UPS-PDP-ICS equipment), Network, Package interface and Earth Cables, FTE Network verification, IP address/Device Index Verification, Redundancy Verifications, Software Loading, ICS Integration and I/O test, Field Device Manager function test, Overall system Failure Modes test, Controller Loading Check, ICS functions Performance test, Synchronization Time, Loop check, Package type C Communication and functionality test.

Contribution in Projects:

- 1- Persian Gulf Bid Boland Gas Treating Project (EPCC), \$3.5 billion

SEP 2011–OCT 2016

JOB TITLE: LEAD I&C ENGINEER / DEPARTMENT HEAD DEPUTY (at last year)

COMPANY: OIL DESIGN & CONSTRUCTION COMPANY (OD&CC), TEHRAN, IRAN

Address: No. 178, 4th Golestan St., Pasdaran St. Tehran, Iran

Website: <http://www.odcc.ir>

Job Description: Designing/Managing/Coaching I&C Deliverables/Non-Deliverables for Oil & Gas Industrial Plants

Responsibilities:

- 1- Review and Endorsement of basic-design documents
- 2- Preparation/Checking of detail-design documents including:
Instrumentation Specification (Detail Phase issue) and Design Criteria, Instrument Data Sheets, Sizing Calculation, Power Supply Consumption Estimation, Instrument Air Consumption Estimation, Instrument Data Base (Instrument Index, I/O List, Alarm & Set point List), Control Narratives and Safety Logic Diagrams, C&E Matrix Diagrams, SIL Verification Report implementation on devices, Hook-Up and installation Drawings, Cable schedule, junction box termination, Worked closely with electrical to finalized cable routing, 3D Modeling by PDMS
- 3- Leading the team of instrument engineers
- 4- Carrying out control and instrumentation troubleshooting activities
- 5- Liaising with and coordinating other discipline groups, to ensure deliverables are produced to meet deadlines and within budget constraints and to fulfil the design consistency of the whole plant
- 7- Detail design review of the process packages including various indirect heaters, centrifugal and reciprocating compressors, TEG package and etc.
- 8- Preparation of M.R. for Instruments, Valves, ICSS and controlling the SSS, DCS, FGS, RTU and SCADA related vendor documents and their design review
- 9- Vendor documents review for field instruments and providing Technical Bid Evaluation (TBE), packaged units and process control system and safety system
- 11- Participation in P&ID review and mechanization
- 12- Participation in HAZOP/HAZID, LOPA, SIL Analysis, etc. as required by projects
- 13- Participation in Control and Safety System Factory Acceptance Test (FAT);
- 14- Participation in Site Acceptance Test (SAT);
- 15- Intrinsic safety and hazardous area classification
- 16- Prepare Proposal for Tenders as following:

Preparation of Tender Documents and work abstraction, Preparation of Design Criteria & Letters, Review of Tender Documents, Send Questions and Suggestions to the Director of ITB, Battery Limits, Preparation of Schedule Time, Field Instrument List/ICSS MTO Pricing & MTOs for Bulk Items

Contribution in Projects:

- 1- Abadan Refinery Upgrading Project (EPCC) Including CDU/VDU, LPG, GHT, KHT, NHT, CCR, ISOM, HCU, SRU, HPU, UTILITY, INTERCONNECTING units), \$2.6 billion, as Lead I&C Engineer
- 2- South Azadegan Oil Field, Surface Facility Project, as I&C Checker (Dept. Head Deputy)
- 3- Bandar Abbs to Sirjan Pipeline and Pump Station Project as I&C Checker

OCT 2009–SEP 2011

JOB TITLE: I&C DESIGN ENGINEER

COMPANY: TEHRAN RAYMAND CONSULTING ENGINEERS, TEHRAN, IRAN

Address: No.10, Ahmad Ghassir St., Beheshti Ave., Tehran 15136,

Website: <http://www.tehranraymand.com>

Job Description: Designing Control & Safety System, and Instrumentation for Oil & Gas

Responsibilities:

- 1- Prepared Datasheets for Flow, Pressure, Level, Temperature Instruments and Control Valves/ Safety Valves / Flow Elements
- 2- Prepared Calculation Sheets for Control Valves and Flow Elements
- 3- Provided I/O list and alarm set point list
- 4- Prepared Control Narrative/ Cause & Effect Matrixes / Logic Diagrams/Loop Diagrams
- 5- Prepared Foundation Fieldbus Segment Design
- 6- Prepared Hook-Up and installation Drawings
- 7- Developed Cable schedule, junction box termination
- 8- Worked closely with electrical to finalized cable routing
- 9- Developed Material Specification for instruments and valves
- 10- Reviewed vendor documents and provided comments/corrections
- 11- Technical Bid Evaluations (TBE) for field instruments and valves

Contribution in Projects:

- 1- South Pars gas field development plant, phases 15&16, Detail Engineering & Procurement

NOV 2005–OCT 2009

JOB TITLE: I&C DESIGN ENGINEER

COMPANY: PARSIAN POWER & INDUSTRY DEVELOPMENT COMPANY, TEHRAN, IRAN

Address: Tehran Province, Tehran, District 22, No: 5 «Kaj Blvd, 14947 35511

Website: <http://Parsian.com>

Job Description: Designing Instrumentation and Control System Document in Oil, and Power Plant

Responsibilities:

- 1- Prepared Instrument Index, I/O List, Alarm Set point/Trip List,
- 2- Prepared Datasheets for Flow, Pressure, Level, Temperature Instruments and Control Valves/ Safety Valves / Flow Elements
- 3- Prepared Instrument Junction Boxes Termination Wiring Diagram
- 4- Prepared PLC Logic Diagram
- 5- Prepared Control System Architecture Block Diagram
- 6- Prepared Program for PLC-Based S7-400 Control System.
- 7- Managing the FAT for control System
- 8- Managing the SAT for control System

Contribution in Projects:

- 1- Isfahan II Combined Cycle Power Plant, as Instrumentation Design Engineer
- 2- Fajr2 Auxiliary Boiler Control System Project, as Control System Designer (Boiler Control & Protection System of Auxiliary Boiler Package- Siemens PCS7 V7.0 & S7-400H, s7-400FH)
- 3- Siri Island Power Plant, as Control System Designer for PDCS (Power Distribution Control System) of Electrical Renovation Project

EDUCATIONAL BACKGROUND

B.SC. IN ELECTRICAL ENGINEERING (CONTROL ENGINEERING)

SEP 2001 – MAY 2005

Iran University of Science & Technology, Tehran, Iran (<http://www.iust.ac.ir>)

Thesis: Selection Principles of industrial Controllers in Process Control, Factory Automation and Building Management Systems. As practical part of thesis: Designing a PLC Based Control System as the BMS (Building Management System)/Smart Home for a complex building

JOB-RELATED SKILLS

MAIN SKILLS:

- Wide experience in designing of Control system and Instrumentation for different industrial plants (specially oil & gas refineries and related plants);
- Fully acquainted and thorough understanding and knowledge of industry codes and standards (ISA, API, NFPA, NEC, ANSI, NEMA);
- Experienced with Functional Safety ANSI S84 I IEC 61511;
- Objective judgment and fact based decision making approach;
- Capability to professionally deal with changing priorities and requirements in an environment of schedule and cost pressure;
- Understanding of measuring principles and calibration/configuration of common field devices (pressure, flow, temperature, etc.);
- Carrying out control and instrumentation troubleshooting activities;
- Liaising with and coordinating other discipline groups, to ensure deliverables are produced to meet deadlines and within budget constraints;
- Sound understanding of intrinsic safety and hazardous area classification;
- Fully acquainted with design integration of the Control & Safety systems hardware of: Honeywell (Experion PKS & Safety Manager DDS), Yokogawa (Centum VP & ProSafe-RS), PLCs (Siemens S7-400/300),
- Good knowledge of industrial network (Fieldbus, Modbus, Profibus, etc.)
- Acquainted with power management system, and interconnections of control system with power management system
- Acquainted with EPC and EPCC project procedure
- Good knowledge of oil & gas refinery processes
- Acquainted with other engineering fields and working in a multi-discipline engineering environment (process, safety, mechanical, material, and civil engineering)
- Good command in programming and computer-aided tools

WORKING WITH ENGINEERING SOFTWARES:

- Flow Element Sizing Software (Flowel, Instrument Calc)
 - Control Valve Sizing Software (Conval, Fisher, Tyco)
 - Pressure Safety Valve Sizing Software (Valve Star, Tyco)
 - 3D Modeling PDMS
 - AutoCAD Software (Preparing Layouts & Diagrams)
 - Siemens PCS7, Step 7 and WinCC
 - EPLAN Software (Cabinet Circuit Wiring Diagram/Cross Wiring)
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PERSONAL SKILLS

LANGUAGE

MOTHER TONGUE(S): Persian/Kurdish

OTHER LANGUAGE(S):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B1	B1	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

COMMUNICATION SKILLS

- Team work: I have worked in various types of teams from research teams to engineering team.
- Presentation and meetings: Able to communicate complex information to individuals and groups, make presentations and respond to questions in both educational and workplace settings.
- Written communication skills: Good written communication skills from varied experience of writing minutes and reports.
- Leadership Skill: Coaching, Team Building, Motivation, Communication, Influencing and Trust Building attitudes

COMPUTER SKILLS

ENGINEERING SOFTWARES:

- 1- Flowel
- 2- Fisher/Conval
- 3- Valve Star/ Tyco
- 4- AutoCad
- 5- PDMS

ATTENDED TUTORIAL WORKSHOPS & CERTIFICATES

- 1- "PMBOK & PMP Test Preparation", Tehran, Iran, 2015
- 2- "Honeywell Training Course", Paris, France, 2018.
- 3- "Petroleum Refining Processes", Tehran, Iran, 2012
- 4- "Commercial Correspondence", Tehran, Iran, 2012
- 5- "Safety Integrity Levels (SIL) Study", Tehran, Iran, 2012
- 6- "Introduction & Application of different types of Analyzers", Tehran, Iran, 2016.
- 7- "Fundamentals of Control Valve Engineering", Tehran, Iran, 2011.
- 8- "Distributed Control System of YOKOGAWA", Tehran, Iran, 2014
- 9- "Plant Design Management System (PDMS) Software", Tehran, Iran, 2014
- 10- "Fire & Gas System and detectors", Tehran, Iran, 2016.
- 11- "Siemens Configuration and PCS7 (CFC Programming Language)", Tehran, Iran, 2006.
- 12- "API Training Courses in most important related Refinery fields (Instrument, Piping, Electrical, Process, Safety, Mechanic)", Tehran, Iran, 2015.

PRESENTED SEMINARS

- 1- "Smart Homes", Department of Electrical-Control Engineering, *Iran University of Science & Technology*, Tehran, 2004.
 - 2- "Smart Grids and Power Management System (Load Sharing and Load Shedding)", Department of Electrical-Control Engineering, *Iran University of Science & Technology*, Tehran, 2004.
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PARTICIPATION ACTIVITIES

- 1- Membership in Iran Community Instrument and Control Engineers
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REFERENCES

K.LAGHAEI

Instrumentation & Control Department Manager at Sazeh Consultants, Tehran, Iran
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