



ALI MOTAMED

I&C Engineer

PROFILE

Results-driven multi-skilled Instrumentation and Control Engineer with more than ten years of experience in the industry. I hold a Master's degree in Control Engineering and specialize in Instrumentation, Fire & Gas systems, Industrial Automation and PLC/DCS/ESD systems software development. Proficient in almost all detail design phase related activities in EPC companies and leading automation solutions from Yokogawa, Siemens, and Wonderware, I excel in development and commissioning of instrumentation and control/safety systems. With a proven track record in managing national and international projects across diverse sectors, including refineries, petrochemical and mine and metal plants I consistently deliver outstanding results.

WORK EXPERIENCE

09/11/2024 – Current – Tehran, Iran

Instrumentation, Control & F&G Design Engineer

Namvaran Consulting Engineers; Managers

- Engaged in after P.O. vendor documents review
- Detail design documents issue and review
- Before P.O. technical offer review and clarification with vendors
- Holding clarification meetings with vendors
- Holding FAT/SAT meeting

Projects:

- Olefin Plant, Persian Gulf Hormoz Petrochemical Co.
- Cathodic Copper Production, Sungun, National Iranian Copper Ind. Co.

07/10/2018 – 20/03/2021 & 04/01/2022 – 21/10/2024 – Tehran, Iran

Industrial Automation Engineer

Kian Control GmbH

- Proficiently developed code for Yokogawa Centum VP & Prosafe RS, Siemens PCS7, Step7, and TIA Portal systems, aligning with C&E, Logic Diagrams, P&ID, and client-provided onsite instructions.
- Skillfully designed HMIs using WinCC and Wonderware InTouch SCADA software based on P&ID and PFD documents.
- Implemented module-based software using Yokogawa AD Suite to enhance system functionality.
- Generated comprehensive detail design documents including BOM, IO Assignment, Cabinet Layout, and System Architecture, ensuring project success.
- Successfully commissioned control systems and effectively managed tasks under pressure.
- Conducted precise commissioning of VFDs, Load Cells, DP-DP Couplers, and other equipment.
- Proficiently handled commissioning of industrial networks such as ProfiNet, ProfiBus, and ModBus to ensure seamless system integration.

International Projects:

- EAF/LF Steel Plant with BSE and ASM, İzmir Demir Çelik Co. (İDÇ) | Siemens S1500, TIA Portal & WinCC | Software code development according to supplier Functional Description, participation in FAT and commissioning of EAF
- DRI Plant with ASM, Ardakan Steel Complex Co. | Siemens S7-410, PCS7 v8.1 | Hardware and Software Modification & Commissioning
- Hot DRI Plant with ASM, Chadormalu Mining and Industrial Co. | Siemens S7-300, Step7 + Wonderware HMI | Hardware and Software Modification & Commissioning

13/06/93



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GENERAL SKILLS

- Proven ability to collaborate effectively in team settings while also thriving in independent roles
- Committed to adhering to work schedules and meeting deadlines consistently
- Quick and self-sufficient learner, capable of adapting to new information and skills
- Diligently complete tasks with attention to detail and thoroughness
- Eager to embrace new challenges and opportunities for growth within my area of expertise

LANGUAGES

English (Professional Working)

German (Elementary, Learning)

COURSES

- 2018
Industrial Electrical Drawing Using ePLAN
- 2015
NSC Fire Alarm and Voice Alarm
- 2013
PLC S300 Programming Short Course

CERTIFICATIONS

- 2024
Artificial Intelligence/Internet of Things (AIoT)
- 2024
Moxa Application & Solution Certification (MASC2024)
- 2018
Specialized Fire Prevention Course – Fire Detection Systems
- 2015
ETS TOEFL iBT Certificate
Total Score: 93

- 2014
Inspection and Control of Cathodic Protection (level1)
- 2012
MATLAB Software Training Course

HONORS-AWARDS

- 2015
Ranked 1st in 2D Soccer Simulation Competition (1st Robocup Competition in PWUT)
- 2012
Ranked 3rd in Creativity Exhibition of International Conference on Robotics and Mechatronics (ICRoM)

PUBLICATIONS

- 2017
[Finite-time distributed error observer design for multi-agent systems with chaotic or hyper-chaotic dynamics](#)
- 2015
[Design and Implementation of an Autonomous Vehicle Control System Using Operator Performance Recording Algorithm](#) (In Persian)
- 2015
[Fuzzy gain scheduling of PID controller implemented on real-time level control](#)

INTERESTS

- DCS Systems: Yokogawa CentumVP / Emerson DeltaV / Honeywell PKS
- PLC: Siemens / Allen-Bradley
- Industry 4.0
- On-site commissioning
- Instrumentation
- AI Transformation

REFERENCES

- In Kian Control, Head of Industrial Automation Department: [Ehsan Nami](#)
- In Pooyasaay, CEO: [Pouya Shobeiri](#)

Local Projects:

- Diesel Hydro Treatment (DHT) & Utility Plant, [Esfahan Oil Refining Co.](#) | Yokogawa Centum VP + ProSafe RS | Hardware Document Development, Software Modification & Commissioning Team Management
- EAF Phase 2, [South Kaveh Steel Company](#) | Siemens S7-400, S7-300, Step7+WinCC | Commissioning of EAF

21/03/2021 – 06/12/2021 – Tehran, Iran

Project Manager, Integrated Control and Safety Systems

[NikaNovin Co. Ltd.](#)

- Successfully developed Yokogawa Centum VP & Prosafe RS code based on client-provided C&E, Logic Diagrams, P&ID, and Control Philosophy documents.
- Efficiently implemented module-based software using AD Suite.
- Verified and released detailed hardware/software design documents to facilitate seamless system integration.
- Consistently achieved project milestones promptly and effectively.
- Skillfully translated P&ID documents into HMI pages for streamlined implementation processes.

Projects:

- Monoethylene Glycol (MEG) Plant, [Pars Glycol Petrochemical Company](#) | DCS/ESD software development
- Air Separation Unit (ASU), Rayan Polymer Pouya Petrochemical Company | Project management, Hardware Document Development & DCS/ESD software development

23/10/2015 – 22/09/2018 – Tehran, Iran

Project Engineer, Automatic Firefighting Systems

[Pooyasaay Co.](#)

- Successfully designed and engineered fire detection and alarm systems.
- Expertly crafted fire extinguishing systems, encompassing FM200 and sprinklers.
- Proficiently programmed and commissioned intelligent automatic firefighting systems.
- Conducted fault diagnosis and maintenance of firefighting systems with precision.
- Demonstrated proficiency in working with esteemed brands including GE/EST, VES, Inim, and Thorn.
- Made impactful contributions to integration and maintenance projects across diverse environments such as data centers, printing houses, and office buildings.

EDUCATION

23/09/2021 – 19/02/2024 – Tehran, Iran

Master of Science and Technology Policy

Sharif University of Technology

23/09/2015 – 10/07/2018 – Tehran, Iran

Master of Science in Control Engineering

Shahid Beheshti University

23/09/2011 – 22/09/2015 – Tehran, Iran

Bachelor of Science in Control Engineering

Shahid Beheshti University

JOB-RELATED SKILLS

- Instrumentation and F&G: Document development (Instrument / IO / Cable / Alarm & Setpoints Lists, Datasheets, Location Layouts, JB Terminations, ...) / Vendor Document Review / FAT / SAT / Technical Offer Review / AutoCAD
- Yokogawa Specializations: Centum VP / Prosafe RS / AD Suite module-based programming / ModBus Network Configuration
- Siemens Specializations: DCS System Configuration / PCS7 / Step7 / TIA Portal / WinCC / ProfiBus, ProfiNet and Hardware Setup
- Fire Fighting Systems Software Knowledge: 3-SDU / IO-CU / QuickStart / VES Loop Explorer / VES Guide / FireWorks / NSC / Xtralis VSC / Smart League