

AMMAR ALDAHAN

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PROFESSIONAL SUMMARY

Instrumentation and Control Engineer with a strong background in project lifecycle management, from pre- construction planning to commissioning. Skilled in interpreting design specifications, developing control system architectures, and programming PLCs and HMIs. Proven track record of coordinating with teams, suppliers, and contractors to ensure successful project delivery. Seeking to leverage expertise in instrumentation and control engineering to drive innovation and contribute to project success.

CORE QUALIFICATIONS

- MS Word, PowerPoint, Excel
- AutoCAD/SolidWorks
- CAN/LIN
- Analog and Digital Circuit
- PLC/HMI Design
- Commissioning and Validation
- Able to read and understand Electrical Schematics
- Troubleshooting electrical systems
- AC&DC Power Systems
- Project Planning and Coordination
- Control System Design and Integration

EDUCATION

EASTERN MICHIGAN UNIVERISTY

Bachelor of Science in Electronic Engineering Technology

GPA:3.1

Ypsilanti, MI

Apr 2020

Certification:

OSHA 30-hour (Occupational Safety and Health Administration)

WORK EXPEREIENCE

ACS – Engineer. Integrate. Build.

Instrumentation and Control Engineer.

Troy, MI

May 2022 – Apr 2024

- Collaborate with engineers to interpret design specifications and user requirements, ensuring alignment with project goals.
- Review control system architecture, flow diagrams, P&IDs, and design specifications, providing valuable insights and recommendations.
- Develop wiring schematics, control panel layout drawings, and work orders for control panel manufacturing.
- Program and integrate HMIs and PLCs from leading manufacturers such as Allen Bradley, Siemens, and GE.
- Coordinate equipment procurement and conducted system functionality tests at manufacturing facilities and customer sites.
- Oversee field contractor activities during periodic visits to jobsites, maintaining quality subcontractor and vendor relationships.
- Generate field sketches and communicate system installation requirements to construction personnel.
- Manage vendors and subcontractors, delegate tasks, and ensure adherence to project deadlines and quality standards.
- Conduct onsite equipment startup, validation, I/O checkout, instrument calibration, and PID loop tuning during commissioning phases.
- Develop operation manuals and conduct training sessions for client personnel.

Armstrong International, Inc

Electrical Engineer

Three River, MI
Feb 2020 – May2022

- Designed electrical systems tailored to custom-built industrial water heating packages, aligning with client requirements using AutoCAD/SolidWorks.
- Developed wiring diagrams for bespoke electrical systems and maintained project progress documentation in PDM SolidWorks.
- Provided hands-on troubleshooting and support to engineering technicians on the shop floor, addressing electrical issues in new designs.
- Formulated parameter sets for software loads to enhance system quality and functionality, ensuring compliance with safety regulations.
- Wired and integrated multiple units and sensors for testing before shipment, guaranteeing system integrity and performance.
- Collaborated cross-functionally with engineering teams, sales departments, and clients to define and design wiring diagrams for control panels, ensuring heating packages met specifications and quality standards.
- Produced electrical schematics and diagrams for hot water systems promptly and in accordance with departmental guidelines.
- Conducted equipment and machine tool testing, promptly identifying, and reporting any discrepancies for resolution.

SKILLS

- Bilingual: Fluent in Arabic/English
- Leadership
- Integrity
- Project Management
- Complex problem solving
- Collaboration
- Flexibility
- Active Learning
- Pro-active
- Reasoning Skills
- Time Management
- Self-motivation.