

STRENGTHS

-  **Effective Communicator**
Foster team collaboration through clear, concise communications, ensuring everyone is aligned on goals and expectations.
-  **Strategic Planner**
Expertly formulate initiatives that align resources for successful project outcomes and timely milestone achievement.
-  **Team Builder**
Cultivated a supportive team environment, nurturing talent while mentoring junior engineers to build confidence.
-  **Detail Oriented**
Focused on detail to ensure top quality in designs and documentation, preventing costly mistakes and revisions.
-  **Creative Problem Solver**
Approached challenges with innovative solutions that reduced time loss and minimized workplace issues.

SKILLS

Instrumentation Specification	
Maintenance Planning	
Project Management	
Communication Protocols	
Data Analysis	Safety Compliance
Training & Development	
Process Automation	
Control Systems	
Technical Documentation	
Budget Management	
Risk Assessment	
Collaborative Teamwork	

SUMMARY

Results-driven Senior Instrumentation Engineer with over 5 years of experience in electrical and instrumentation sectors. Proven expertise in specifying and selecting instrumentation, designing maintenance plans, and providing technician training. Skilled in managing complex engineering projects while ensuring compliance with safety standards. Comfortable working across multiple communication platforms and protocols including HART, Profibus DP, and Modbus TCP. Committed to enhancing operational efficiency and minimizing downtime through innovative solutions that align with industry best practices.

EXPERIENCE

Senior Instrumentation Engineer

Engineering Solutions Inc.  March 2021 - Present  Tempe, AZ

- Oversaw critical instrumentation projects at Engineering Solutions Inc., leading alongside engineering teams to improve operations. Specialized in meeting client needs through tailored instrumentation solutions, ensuring seamless project execution and enhanced equipment performance.
- Specified and selected instruments, ensuring alignment with company standards and operational requirements.
 - Designed maintenance strategies that included BOM lists and spare part planning to significantly reduce equipment downtime.
 - Kept essential engineering documents like instrument data sheets and P&IDs up to date for accurate reference by teams.
 - Delivered comprehensive training sessions for technicians on the installation and calibration of control systems.
 - Implemented life cycle management programs for instruments, improving consistency across legacy systems.
 - Collaborated on refining control narratives, boosting automation and overall system efficiency.

Instrumentation Engineer

Tech Innovations Ltd.  June 2018 - February 2021  Glendale, AZ

- Contributed as an Instrumentation Engineer supporting complex instrumentation systems across various projects. Gained a solid foundation in installation and calibration techniques while actively engaging with peers to enhance knowledge sharing.
- Assisted in specifying instrumentation and ensuring compliance with stringent project specifications.
 - Led efforts in installing and calibrating numerous process instruments, which improved measurement accuracy across facilities.
 - Developed onboarding training materials for technicians, creating a structured path for knowledge acquisition.
 - Utilized data analysis to evaluate instrument effectiveness, proposing enhancements to measures in line with operational goals.
 - Promoted adherence to safety practices, identifying potential hazards and mitigating risks during installations.
 - Strengthened vendor cooperation for streamlined procurement processes, successfully maintaining budget integrity.

Junior Instrumentation Engineer

Innovative Tech Corp.  January 2016 - May 2018  Phoenix, AZ

- Joined Innovative Tech Corp. team as a Junior Instrumentation Engineer where foundational skills in instrumentation were developed. Collaborated with engineers in multi-disciplinary teams while acquiring hands-on practical experience.
- Supported senior engineers in designing and deploying instrumentation systems while developing functional knowledge.

Process Improvement

Vendor Management

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Senior Instrumentation Engineer at Engineering Solutions Inc. (5.4 Years)

● Instrumentation Engineer at Tech Innovations Ltd. (2.7 Years)

● Junior Instrumentation Engineer at Innovative Tech Corp. (2.3 Years)

- Participated in audits identifying safety compliance, gaining insights into industry regulations and documentation.
- Documented instrument performance metrics to inform future design and implementation improvements.
- Engaged in team discussions to explore engineering solutions that aligned with broader business objectives.
- Gained proficiency in software applications crucial for data analysis and effective project submissions.

LEADERSHIP & AWARDS

- National Safety Award for the highest compliance in operational processes, awarded April 2023.
- Innovative Engineering Award received in 2022 for exceptional contributions to operational efficiency.

EDUCATION

Bachelor's Degree in Electrical Engineering

Arizona State University 🎓 GPA: 3.5 📅 2015 📍 Tempe, AZ

Coursework: Control Systems, Signal Processing, Circuit Design, Electromagnetic Theory

CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2020
- Project Management Professional (PMP) 📅 2022

TECHNICAL SKILLS

- **Instrument Communication Protocols:** HART, Modbus TCP, Devicenet
- **Software Tools:** AutoCAD, MATLAB, LabVIEW
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **PLC & DCS Technologies:** Allen-Bradley, Siemens, Emerson
- **Data Analysis Tools:** Excel, Python, SQL
- **Health and Safety Practices:** ISO 45001, NFPA 70E, OSHA Standards
- **Documentation Standards:** ISA Standards, API Standards, IEEE Standards
- **Testing and Calibration Methods:** Field Testing, Software Verification, Hardware Validation
- **Calibration Standards:** ISO/IEC 17025, ANSI/NCCL Z540.3
- **Lifecycle Management Techniques:** Predictive Maintenance, Reliability-Centered Maintenance, Total Productive Maintenance

PROFESSIONAL AFFILIATIONS

- Member of the International Society of Automation, contributing to community learning.
- Volunteer engineer for STEM outreach program focusing on increasing interest in engineering careers.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST