
PARSA MAHMOUDI

PROFILE

Quality Assurance Specialist and Electrical Engineer with 8+ years of experience in quality management, engineering, testing & commissioning, and safety-critical transportation and industrial systems. Proven track record leading quality assurance programs, conducting internal and supplier audits, managing non-conformances, performing root cause analysis, and driving continuous improvement initiatives across multidisciplinary teams. Experienced in rail transit projects including CBTC and electric machinery systems, supporting compliance with ISO 9001, AREMA, nuclear CSA N299.3, ASME NQA-1, and industry engineering standards. Strong background in data analysis and change management, supporting projects from concept to deployment.

EXPERIENCE

QA/QC SPECIALIST, RENOWN ELECTRIC; CONCORD

OCT 2024 - PRESENT

- ♦ Reviewed customer scopes of work, technical specifications, and contractual requirements for incoming projects; develop risk-based quality plans, inspection requirements, and assigned related NDT Program or electrical testing forms (such as: Hi-pot, Megger, Monolith, Surge, Loop, Voltage Drop Test and etc.) ensure compliance values with customer and industry standards.
- ♦ Performed technical review and compliance assessment of synchronous/induction motors and generators against EASA AR100, IEEE 60034, NEMA MG-1, and customer specifications, validating electrical, mechanical, and performance measurements throughout the repair and manufacturing lifecycle.
- ♦ Led the development, implementation, and continuous improvement of the Quality Management System (QMS), including Quality Manual, procedures, work instructions, prevention maintenance, assets calibration, and document records to maintain compliance with ISO 9001:2015 and support successful external certification and surveillance audits by Intertek.
- ♦ Developed and maintained Inspection and Test Plans (ITPs), quality control plans, and acceptance criteria for incoming inspection, in-process verification, final testing, and release activities, ensuring full traceability and documented evidence of conformity.
- ♦ Managed Non-Conformance Reports (NCRs), corrective and preventive actions (CAPA/CAR), and root cause investigations using structured quality methodologies including 5-Whys, Fishbone Analysis, and DMAIC; maintain master tracking systems and monitor closure effectiveness.
- ♦ Chaired Joint Health and Safety Committee (JHSC) meetings, conduct weekly toolbox talks, perform workplace inspections, and promote a culture of safety, quality, regulatory compliance, and continuous improvement throughout the organization.

S&TCS PROJECT COORDINATOR, CROSSLINX TRANSIT SOLUTIONS; TORONTO

SEP 2023 - OCT 2024

- ❖ Developed hands-on familiarity with Bombardier's CITYFLO 650 CBTC system architecture, coordinating the integration and commissioning of core subsystems including ATP, ATC, CBI and ATS, with a focus on operational availability and safe system deployment.
- ❖ Coordinated ATO testing and subsystem readiness within designated regions, ensuring alignment of train movements, movement authority, and safety protocols for onboard and wayside systems.
- ❖ Led validation and commissioning support for the CBI (Computer-Based Interlocking) subsystem, ensuring route locking, switch control, conflict detection, and vital data exchange with RATP and ATS met project safety and performance requirements.
- ❖ Supported the installation verification and functional testing of norming points (RFID tags) and onboard readers, ensuring accurate train localization and proper integration with VATP and system map data.
- ❖ Applied data analysis techniques using Python for CTSC traceability matrix of RCSs STCS system. Developed Power BI models for verification and validation (V&V) procedures to visualize and track over 360,000 SRDS requirements.
- ❖ Managed multiple project milestones to ensure on-time delivery and developed project schedules and coordinated planning using MS Project.

COMMISSIONING COORDINATOR, CROSSLINX TRANSIT SOLUTIONS; TORONTO

JAN 2022 - SEP 2023

- ❖ Reviewed and issued S&TCS commissioning reports to HMKE, demonstrating strong attention to detail and regulatory compliance.
- ❖ Developed and maintained comprehensive commissioning reports and documentation including updated test results, revision tables, signatures, and titles to ensure accurate and timely communication with stakeholders.
- ❖ Tracked and updated checklist statuses using the company's internal asset tracker tool, maintaining data integrity and supporting smooth project operations.
- ❖ Prepared 16 facility asset trackers by reviewing IFC drawings covering over 18,000 assets for commissioning status reporting.
- ❖ Demonstrated expertise in integration, interfaces, and commissioning processes with a strong understanding of Installation, PICO, SAT, and SIT documentation.
- ❖ Led vendor testing and commissioning events, recording and closing out deficiencies effectively.
- ❖ Facilitated weekly coordination meetings with M&E station teams to follow up on outstanding system and facility assets pending testing and commissioning.

PRODUCTION TECHNOLOGIST, HAYWARD GORDON; HALTON HILLS
OCT 2021 - JAN 2022

- ❖ Reviewed engineering drawings for manufacturability, ensuring compliance with regulatory requirements and safety rules enforcement.
- ❖ Aided chassis component design using CATIA V5 and ensured designs meet all relevant regulatory requirements and determined most effective approaches to new projects by reading and analyzing engineering drawings, blueprints, and sketches.
- ❖ Utilized problem-solving skills to quickly troubleshoot issues that arose during production runs and identified risk mitigation actions that insured injuries and hazards in the production environment.

QUALITY ENGINEER II, PSA PEUGEOT CITRÖEN S.A.; IKAP
JAN 2017 - JAN 2018

- ❖ Developed the Advanced Product Quality Planning (APQP) activity to achieve PPAP approval of supplied components for IKAP products. Support DFMEA & PFMEA activity and identification of critical and significant characteristics. Responsible for the quality sign-off of supplier capability during the supplier nomination process.
- ❖ Responsible for completing first article inspections. Engage and manage suppliers to consistently deliver products that meet defined requirements. Responsible for the completion of measurement systems analysis on new and existing equipment.
- ❖ Supported the development and maintenance of documented work instructions to conform to the control plan. Support the activity relating to Type Approval & Conformity of Production. Support new product launches to ensure that product quality meets the required standards.
- ❖ Facilitated root cause analysis and corrective actions of quality issues and perform verification of corrective actions. Facilitate the escalation of unresolved quality issues. Conduct lessons learned sessions at the start of each project phase. Promote techniques for continuous improvement. Reported on Key Performance Indicators (KPIs) to the organization.

QUALITY INSPECTION & MEASUREMENT ENGINEER
PSA PEUGEOT CITRÖEN S.A.; IKAP
MAY 2016 - DEC 2016

- ❖ Responsible for dimensional analysis & confirmation of prototype & production vehicle build condition. Capture quality concerns and facilitate problem root cause and perform verification of corrective actions. Responsible for completing first article inspections.
- ❖ Supported final vehicle audit. Managed temporary containment in the PSA assembly process including approval of component rework and process deviation. Established in process quality gateways for the PSA assembly process.
- ❖ Reported on Key Performance Indicators (KPIs) in order to adhere to process and prevent occurrence of any non-conformity relating to product, process or system.

EDUCATION

UNIVERSITY OF TORONTO, TORONTO, ON - BOOTCAMP CERTIFICATION IN FULL
STACK SOFTWARE DEVELOPMENT

AUG 2024 - DEC 2024

CENTENNIAL COLLEGE, TORONTO, ON - ADVANCE DIPLOMA IN BOMBARDIER
AEROSPACE MANUFACTURING ENGINEERING TECHNOLOGY

AUG 2019 - JAN 2022

SCIENCE & RESEARCH UNIVERSITY OF TEHRAN, IRAN - BACHELOR'S DEGREE IN
ELECTRICAL AND ELECTRONICS ENGINEERING

AUG 2013 - MAY 2017

CERTIFICATION

PROFESSIONAL PROJECT MANAGEMENT (PMP) - IN PROGRESS

SIX SIGMA GREEN BELT

INTERNAL AUDITOR TRAINING ISO 9001:2015

CTSC QUALITY ORIENTATION

BASICS OF SUPERVISING

WORKING AT HEIGHTS WORKSITE SAFETY

ENVIRONMENTAL ORIENTATION

JOINT HEALTH AND SAFETY COMMITTEE

WHIMIS HEALTH & SAFETY

FIRST AID AND CPR/AED TRAINING

SKILLS

ENGINEERING PROGRAMS

Autodesk BIM, Bentley OpenRail Designer, Autodesk Construction Cloud, SharePoint,
AutoCAD, Revit, MS Project, MS Excel, SAP ERP, Primavera P6, Catia V5, SolidWorks,
Mastercam, Ansys, MATLAB, Foxit PDF Reader

MACHINING & WELDING

CNCs, mills, lathes, angle grinders, plasma cutters, balancing machine, oxyacetylene
torches, arc welders, band saws, grinders, shears, drill presses, chop saws, CMM machines

PROGRAMMING LANGUAGES & TECHNOLOGIES

JavaScript, Python, Power BI, HTML5, CSS3, TypeScript, PSQL, NoSQL, Linux, npm, AWS, VS
Code, Git Bash, GitHub/GitLab, GitHub Actions, Jest, Postman, Cypress, CircleCI, Insomnia