Abhishek Dogra

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**Skills Overview**

* 3+ years of Mechanical Engineering experience in testing domain
* Experience with CBTC and CBI for integrated automation and communication on ECLRT project.
* Knowledge of working with railway signaling (fixed block and moving block) systems
* Experience executing testing activities (Wayside and Onboard) with a team, preparing test plan and test documents.
* Capturing test results according to test procedures, analyzing test results and interacting with systems and engineering teams and preparing test reports.
* Familiar with all testing tools (multimeter, laser measure) and software’s (CAT, TCMS)
* Strong experience with Microsoft office suite for data analysis, research and reporting
* Strong project management skills with the ability to efficiently manage priorities for timely project completion
* Learned theoretical and practical knowledge of various statistical tools, Design of Experiments, Lean and Six Sigma, Statistical Process Control and their implementation in the industry.

**Professional Experience**

**Installation, Testing and Commissioning Engineer July 2021 - Present**

**Alstom - Mississauga, ON**

* Responsible for commissioning and testing electrical systems, sub-systems and components installed in the Light Rail Vehicles (LRV) and on Wayside with reliability, safety and assurance.
* Testing train Embedded systems, updating software and working with software team to troubleshoot software issues remotely by changing code and analyzing logs.
* Work with test documents such as control plans, test procedures and records, reports.
* Execute a variety of filed engineering assignments such as test, operation and maintenance of equipment using special tools like portable testing equipment and proprietary software
* Updating, tracking and monitoring of testing and commissioning KPIs
* Planning and executing testing and commissioning events for onboard and wayside testing while adhering to Safety standards, creating risk assessment for wayside activities, maintaining and analyzing hazard logs.
* Coordinate and assist engineering, systems and software team with testing and troubleshooting.

**Mechanical Test Engineer** April 2019 - July 2021

**MGA Research Co. Canada – Mississauga, ON**

* Performing component level and vehicle level testing for Automotive OEM's and Tier Suppliers
* Providing quotes and test timings to customers based on testing criteria and scheduled tests.
* Iterate Multi axis shaker table (MAST) using MTS Software – RPC Pro and Flex Test Controller
* Work closely with customers and technicians to execute the test and play lead role in reporting test progress
* Create and update test procedures for various tests on high power hydraulic systems
* Data analysis and processing with comparative analysis between DV and PV Phases.
* Participate in development of new or expansion of existing business opportunities with customer focus
* Assisting in day-to-day automotive and component testing, collaborating with internal engineering teams in conducting different tests, along with assessment, troubleshooting and problem-solving any issues that might arise during testing while maintaining safety standards.
* Communicating and working with clients to assess needs, and lead test preliminaries in test chambers. Setup of parts on a dynamometer and performing pre-test procedures for parts undergoing testing.
* Read and interpret blueprints and engineering diagrams.
* Inspection of parts for conformance with dimensional specifications, using precision measuring instruments that are following standards and regulations.
* Writing formal test reports with test results for internal records and providing customers a copy of all documentation and data logs collected during a test.

**Production Team Member**

**Toyota Motor Manufacturing Canada – Woodstock, ON** July 2018 – April 2019

* Execute daily production goals in assembly line for 2018 and 2019 RAV4
* Participated in process improvement, Kaizen and knowledge of Toyota Production system
* Certified on 7 different processes, involving accountability for high safety processes
* Worked with Team Leaders to implement process improvements to help reduce process time by 10%

**Education**

**Masters of Mechanical Engineering** 2017 - 2018

**Queens University | Kingston ON**

Major Courses: Convective heat transfer, Lasers in Manufacturing Applications, Mining systems and Processes, Community Aspects of Mineral Resource Development

**Quality Assurance Post Graduate Certificate Program** 2017

**Sheridan College |Davis Campus| Brampton ON**

Major Courses: Engineering Statistics, Statistical Quality Control, Total Quality Management System, ISO 9001/14001, Lean and Six sigma, Design of Experiments, Management of Total Quality, Supply Chain Management, Reliability management, FMECA, Fault Tree analysis, fishbone diagram.

**Bachelors of Mechanical Engineering** 2012 - 2016

**Thakur College of Engineering & Technology | Mumbai University**

Major Courses: Computer Aided Drawing, Theory of Machines, Machine Design, Mechanical Utility Systems, Supply Chain Management, Industrial Engineering and Management, Structured Programming Approach, Engineering Mechanics

**Technical Skills**

* Completed a diploma course on professional design and analytical software’s (CATIA, CREO, ANYSIS, HYPERMESH, NX, GD&T),
* Proficient knowledge of AutoCAD and SolidWorks
* Proficient with Microsoft Office (Word, Excel, PowerPoint and Visio)
* Programming Languages: C++, JavaScript