

Soha Pathan

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Experience

Bombardier, Global 7500/8000, Toronto

Manufacturing/Methods Engineer- FAL & Preflight

August 2017 – June 2020

- Provided technical support to resolve issues during pre-flight & flight testing activities
- Ensure technical assistance for production (problem solving, while taking in consideration the unforeseen)
- Prepared and maintained work instructions including product specifications, assembly manuals, and technique sheets establishing the information required to install detail parts and assemblies.
- Liaised with quality, engineering, production and logistics in order to resolve in-house and vendor technical problems.
- Conceived, conceptualized and generated requests for all related tooling including masters, interchangeability/replaceability media and tool coordination requirements.
- Issued instructions to facilitate tool design and fabrication including tool type, quantity and performance requirements.
- Utilized all available tools such as SAP, CATIA V5 and related data bases to provide on-site and direct support to production inquiries.
- Actioned on NCRs and created work instruction to consume engineering dispositions.
- Reduced production time and cost by investigating new/recurring manufacturing issues and non-conformity reports and proposing solutions towards prevention of recurrence in new aircrafts.

On Assignment: Flying Colors Corp, Peterborough

August 2019 – December 2019

- Provided primary technical expertise and leadership in resolving design, manufacturing, certification, and compliance issues
- Developed a process chart and tracking system for KPI & to meet delivery requirements
- Performed technical reviews and approval of engineering drawings, manufacturing processes, technique sheets, test reports and qualification reports
- Liaised with Suppliers, Engineering Operations, Quality, Customer Support and Supply Chain departments
- Identified design and compliance requirements to ensure all material and process requirements were met
- Interpreted drawings and process specifications
- Supported design change incorporation, product improvement and new product development initiatives
- Be required to handle difficult issues and make challenging technical decisions
- Provided clear visibility to management of the status and/or emerging issues related to the supported activities
- Provided support to Stress team for static analysis, fatigue analysis, and/or structural integrity assessments of aircraft structure;
- Supported development of technical proposals and plans
- Troubleshooted flight snags & Functional Test Controls

Stelia Aerospace, Global 7500/8000, Toronto

Technical Coordinator

Feb 2017 – August 2017

Manufacturing/Methods Engineer

May 2016 – Feb 2017

- Improved efficiency in labour productivity tracking data by implementing digital reporting system
- Collaborated with engineering in the implementation of technical solutions
- Analyzed the technical repercussions related to non-completion of work
- Monitored dashboard in order to follow work progress
- Ensured compliance to procedures, processes and instructions
- Conducted process analysis and modeling using work streams, simulation, critical path, network diagrams, feasibility studies, and line balancing.
- Engaged in work execution planning and interacted with cross functional teams.

Cyclone Manufacturing, Mississauga

Quality Assurance Engineer

August 2015 – May 2016

Novatel/Carleton Spacecraft Laboratory, Ottawa

Design Research Assistant

January 2015 – August 2015

- GNSS lab development
 - Setup dual frequencies antennas on rooftop which is capable of communicating with Propak receivers in Spacecraft lab
 - Depending on atmospheric and ionospheric condition, different mapping results has been obtained and compared
 - Prepared solution manual for undergrad students
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Skills & Expertise

- **Computer Skills** - Microsoft Excel, Microsoft Word, AutoCAD and equivalent, CatiaV5, MES, NCMS, ICMS, SAP, NX/NASTRAN, Ansys 15.0 (CFX, AUTODYN, Thermal, Turbo-grid, Fluent), Finite Element Analysis (FEA), CFD
 - **Advanced knowledge in aerospace manufacturing**
 - **Process oriented.**
 - **Strong analytical skills, quick learner.**
 - **Team player, able to work in high-stress environment.**
 - **Effective oral and written Communication skills & Interpersonal Skills**
 - **Strong Organizational, Time Management, and Multitasking Skills**
 - **Design skills-** Concept Design, Product development, Prototype Testing, metallurgy, Stress analysis
 - **Manufacturing engineering skills-** Lean Manufacturing, Continuous Improvement concepts
 - Knowledge of NDT inspection techniques for corrosion detection of Aircraft structures. Visual, liquid penetrant, magnetic particles, ultrasonic & eddy current techniques.
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Education

Carleton University

Master of Engineering (MEng), Aerospace Engineering, September 2014 – August 2015

Grade: GPA (3.8/4.0)

Gujarat University

Bachelor of Aeronautical Engineering, June 2010 – June 2014

Grade: GPA (4.0/4.0)

Certifications

CATIA

Information Technology Centre June 2013

AUTOCAD 2012 Certified Associate

Autodesk License 00253605 October 2012

Creo for Industrial Designers (Creo 2.0)

PTC June 2013

ANSYS (Linear and Non Linear Finite Element Methods & Thermal Analysis)

Information Technology Centre June 2013