Arun Baby

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Summary

- Specializing in process engineering, product development and quality assurance with more than 3 years of experience and a Certified Six Sigma Green Belt (CSSGB) process improvement specialist
- Proficient in data analysis using Minitab, MATLAB and Python
- Well versed in ISO 9001: 2015 Quality Management Systems and pursuing CQT Certification
- Excellent understanding of Lean and Six Sigma tools and passionate about implementing Lean Manufacturing philosophy in achieving waste reduction and improving process flow

Work Experience

Arrayus Technologies Inc. (Harmonic Medical)   Toronto, ON

Ultrasound Quality Control Associate   Nov 2020 – Present
- Developed and implemented processes and procedures for testing and quality control of completed transducer subassemblies for a new product alongside providing support to R&D efforts
- Analysed and interpreted test data and performed Root Cause Analysis (RCA) as required to optimize performance, assembly processes and yield in co-ordination with manufacturing
- Draft, review and verify technical documentation, including test procedures, work instructions and other quality documents including the Quality Management System (QMS) of the entire organization

Ryerson University   Toronto, ON

Research Assistant (Quality)   Sept 2019 – May 2020
- Implemented continuous improvement, performed statistical (DOE) and reliability analysis of subsystems to ensure satisfactory end product performance using software like Minitab
- Performed multi-disciplinary research including aircraft design lighting systems (using Solidworks & CATIA V5), image processing and human perception for enhancing passenger comfort using AI

Test Center Examiner (Administration)   Sept 2018 – May 2020
- Facilitated access to education for students living with disabilities using advanced technology while working as part of a dedicated team of 70+ fellow professionals
- Managed confidential information and ensured fair opportunities for students with disabilities
- Liaised between academic staff and administration on a daily basis to ensure smooth operations

Bombardier Aerospace & Ryerson University   Downsview Park, ON

Graduate Researcher (Product Development)   Sept 2018 – Sept 2019
- Developed an entire neural network to categorize large image data sets for facial identification to be used to automate and reduce workload of cabin crew members using MATLAB and Python
- Employed statistical analysis to improve process flow, resource utilization and aide project management
- Ensured that the designs of the project moved into prototype stage and eventually was manufacturable. This included quality assurance and methods engineering.

Honda of Canada Manufacturing   Alliston, ON

Internal Parts Auditor (Quality)   Nov 2017-Jan 2018
- Employed statistical process controls (SPC) techniques, metrological testing and root cause analysis to identify and enforce quality control and to ascertain products are within specification
- Conducted routine audit of raw material supplies and production line output of 500+ automotive parts everyday inside a high-volume manufacturing facility
- Performed Measurement System Analysis (MSA) and equipment calibration

Quality Assurance Inspector (Co-op)   Aug 2017-Nov 2017
- Put lean manufacturing philosophy to practice to achieve waste reduction and employed advanced quality tools like Kaizen, 5S and 5-Why techniques to ensure on-time operations
- Performed receiving inspection and acceptance sampling operations. Participated in APQP.

Indian Space Research Organization   Kerala, India

Student Intern (Quality and Testing)   Aug 2016-Dec 2016
- Developed and maintained detailed documentation (FMEA) of mission-critical subsystem
- Supported senior engineers in testing, maintenance and statistical process control of equipment
- Developed fault-tree analysis and assisted in reliability estimations of subsystems for booster rockets

Education

Master's in Engineering – Aerospace/ Mechanical Engineering
Ryerson University |Toronto   *Status: Graduated in 2019*
Program Highlights: Reliability engineering, Advanced statistics, Advanced Manufacturing and Systems Integration

Ontario College Graduate Certificate in Quality Assurance - Manufacturing & Management
Sheridan College | Brampton   *Status: Graduated in 2017*
Program Highlights: Engineering Statistics, Design of Experiments, Lean and Six Sigma, Statistical Process Control, Quality Planning, ISO Standards, Quality Audit, Instrumentation and Process Control, Total Quality Management, GD&T

Bachelor's Degree in Mechanical/Aeronautical Engineering
University of Calicut | India   *Status: Graduated in 2016*
Program Highlights: Propulsion, Aerodynamics, Electrical systems, Structures, Metallurgy and Material Sciences, Computational Fluid Dynamics, Control Engineering

Certifications & Professional Memberships

- **Engineer-in-Training (EIT)** - Professional Engineers Ontario (PEO)
- **Certified Six Sigma Green Belt (CSSGB)** – Six Sigma Academy and Ryerson University
- **Certified Process Quality Analyst (CPQA**) - American Society for Quality (ASQ)
- **Certified Quality Technician (CQT) -** American Society for Quality (ASQ) – *in progress*