**Arun Baby**

EIT, ASQ-CQPA, CSSGB

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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*