

**Email:** arun.baby@ryerson.ca

**Address:** Toronto, Ontario

**Ph:** 647-877-9762

**LinkedIn:** arunbaby1

**Arun Baby**

**Summary**

* A self-motivated doer with analytical, leadership and problem solving skills who is comfortable working in a fast-paced position
* Proficient in reliability engineering, advanced statistical analysis including designed experiments
* Well versed in ISO 9001: 2015, AS9100, APQP, ANOVA, PPAP, FMEA etc.
* 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**

**Exam Invigilator | Test Center Examiner (Part-Time)**

*Ryerson University* | *Toronto**Sept 2018 - Present*

* Directed and executed the smooth operation of exams of 50+ students by coordinating with academic departments, administrators and professors.
* Managed confidential information and ensured fair opportunities for students with disabilities.
* Facilitated access to education for students living with disabilities using advanced technology while working as part of a dedicated team of 70+ fellow professionals
* Recognized and recommended for promotion to exam coordinator for exceptional performance.

**Manager (Part-Time)- Quality Assurance**

*Mr. Pretzel’s* | *Toronto**Feb 2019 - Present*

* Streamlined day to day operations and promoted teamwork among multiple outlets while managing a high-intensity fast-paced work environment.
* Implemented lean manufacturing theory to reduce food waste thereby promoting revenue.

**Quality Assurance Inspector / Parts Auditor (Co-op)**

*Phoenix Quality (for Honda of Canada Manufacturing)* | *Alliston**Aug 2017-Dec 2017*

* Demonstrated skills for quickly and accurately identifying safety flaws in the Honda CRV engines and airbags thereby slashing line interruptions and downtimes
* Liaised between Phoenix, Honda line associates and Honda internal VQ to proactively identify and rectify faults in the vehicle body in real-time
* Recognized for attention to detail and promoted to Parts Auditor during the co-op period

**Student Intern (Quality and Testing)**

*Indian Space Research Organization* | *Thiruvananthapuram, India**Aug 2016-Dec 2016*

* Developed and maintained detailed documentation of wind tunnel operations and testing
* Supported senior engineers in testing, maintenance and statistical process control of equipment
* Developed fault-tree analysis and assisted in reliability estimations of subsystems
* Maintained FMEA of mission-critical subsystems

**Education**

**Master’s in Engineering - Aerospace Engineering**

*Ryerson University |Toronto Status: Graduated in 2019*

*Program Highlights:* Airworthiness and Aircraft Type Certification, Aircraft Safety and Reliability, Advanced Aerospace Manufacturing, Nanomaterials and Nano Composites, Computational Aerodynamics, Aircraft Systems Integration, Neural Networks, Digital Image Processing and Aircraft Cabin Smart Lighting Systems

**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 Quality Control, Quality Planning, ISO Standards, Quality Audit, Instrumentation and Process Control, Total Quality Management, GD&T

**Bachelor’s Degree in Aeronautical Engineering**

*University of Calicut | India Status: Graduated in 2016*

*Program Highlights:* Propulsion, Aerodynamics, Avionics, Aircraft Structures, Rockets and Missiles, Metallurgy and Material Sciences, Computational Fluid Dynamics, Control Engineering

**Projects**

**Intelligent Lighting Control for Aircraft Cabin Using Neural Networks Based on Human Perception (2019)**

Developed a robust passenger identification system to control zone lighting onboard business jets based on the Bombardier Global 7500.

**Design of a Composite Helicopter Rotor Manufacturing Assembly (2018)**

Designed a comprehensive composite main rotor blade manufacturing assembly, including the tooling, plant layout and process flow.

**Comprehensive Analysis of Carbon Nanotube Reinforced Aluminum Composite (2018)**

Analysed the properties, manufacturing processes and developed a comprehensive understanding of the future prospects of Carbon Nanotube reinforced Aluminium composites.

**PPAP Document (2017)**

Led a team to create a PPAP document which included DFMEA, PFMEA, Process Flow Charts and Process Control Plan for a product and calculated its RPN to determine failure modes.

**ISO 9001:2008 to ISO 9001:2015 Transition (2017)**

Created a Quality Manual, Vision, Mission, Quality objectives, Forms and Procedures of an organization to assist it in its transition from ISO 9001: 2008 to ISO 9001: 2015

**Design and Feasibility Analysis of Closed-Loop Cooling System of Turbine Blade Using Helium (2016)**

Proposed an innovative high-pressure gas turbine blade cooling technique whose feasibility was studied using simulations.