

# JASON RONALDO MERLIN SAHAYARAYAN

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## ACADEMIC QUALIFICATION

### Master of Engineering (MEng)

Mechanical Engineering; University of Windsor (UoW), Windsor, ON.

Completed in September 2021. **CGPA:** 89%

**Courses:** Technical Communication: Research, Document Writing; Product Business and Product Integration, Project Management. Robotics Programming.

### Bachelor of Engineering (B.E.)

Mechanical Engineering: Panimalar Engineering College (PEC), affiliated with Anna University, Chennai.

Completed in 2019. **CGPA:** 7.98/10

**Courses:** CAD, Design and fabrication project, design research, BOM, GDNT; Design of Machine Elements; Lean Manufacturing - Quality Stds.

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## SUMMARY

Driven individual with a [Master's in Mechanical Engineering](#) seeking real-world experience as a [Mechanical Designer](#). Demonstrates strong interpersonal and task prioritization skills, with a high attention to detail.

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## TECHNICAL SKILLS

- MS-Office Tools
  - IFS ERP system
  - AutoCAD (PEC),
  - Creo Parametric (PEC),
  - Siemens Tecnomatix Process Simulate(UoW)
  - **CATIA V5** (CADD Centre, Chennai, and UoW)
  - MATLAB and Simulink (UoW)
  - **SOLIDWORKS** (CADD Centre, Chennai)
  - ANSYS (CADD Centre, Chennai)
  - 3D printing (CADD Centre, Chennai)
  - **Programming Language:** Python, Arduino.
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## RELEVANT EXPERIENCE and INTERNSHIP

### BWXT PMI, Oakville, [Quality Control Inspector Level 1](#), November 2024 – Present

- Conducted Receiving Inspections of incoming materials and components, verifying compliance with purchase orders, technical drawings, and relevant standards.
- Reviewed and validated Non-Destructive Examination (NDE) Reports, ensuring alignment with client and project specifications.
- Prepared comprehensive Inspection Reports and Dimensional Inspection Reports, maintaining clear and accurate records for audits and traceability.
- Created and processed Non-Conformance Reports (NCRs) to document and track quality issues during inspections.
- Contributed to an NCR Burndown Project, helping achieve:
  - 50% reduction in open NCRs, improving overall quality control responsiveness.
  - A slower rate of new NCR openings, through proactive inspections and collaboration with cross-functional teams.
- Supported continuous improvement by identifying trends in inspection data and assisting with corrective action processes.

### Accelera by Cummins, Mississauga, [Material Coordinator](#), July 2022 – November 2024

- Managed material logistics for the R&D of hydrogen-powered train engines, collaborating with Planning, Purchasing, and Engineering teams.
- Reviewed Engineering Drawings, BOMs, and Part Revisions to identify required parts.
- Used the IFS ERP system for inventory management and coordinated shipments to customers.
- Created NCRs for defective parts and supported RMA processes by identifying replacement and retrofit components.

**Legacy Personnel, Windsor, [Quality Inspection](#), November 2020 – June 2021**

- Worked part-time for legacy personnel and visited many client industries, including Exkor, Magna IWS, Schukra, A.P. Plasman, and JD Norman, for quality inspection of automobile parts.

**Cadd Centre, Chennai, [Product Design and Analysis](#), April 2019 – January 2020**

- Trained and worked on projects that required 2D Design and 3D modelling, including design, simulation, and analysis of multi-material parts and assemblies in Solidworks, Catia V5 or Ansys.

**Freelance, [Product Design](#), Chennai, April 2019 – April 2022**

- A variable range of designs and 3D printing for clients
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## ACADEMIC PROJECTS

**[Panimalar Engineering College:](#)**

**Characterization Analysis of Graphene Reinforced Jute Fibre Composites**, January–March 2019. 4-member team.

**Design and Fabrication of Scotch Yoke Water Pump**, January–March 2018. 4-member team.

**[University of Windsor:](#)**

**Team white paper report on Bio Toilets and an Individual report on its Business Feasibility**, May-Aug. 20'. 4-member team.

**CAD modelling, assembly and basic analysis of a V6 Engine using CATIA v5**, January-April 2021. 5-member team.

**Detachable Head Toothbrush – Product, Manufacturing and Business Integration Project**, May-Aug. 21', 5-member team.

**Simulation of a 6-robot work cell using Process Simulate**, May-August 2021, Individual.

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## JOURNAL PUBLISHED

Characterization Analysis of Graphene Reinforced Jute Fibre Composites, IRJET Volume - 06, Issue - 04 | April 2019