

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.

SUMMARY

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

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

Accelera by Cummins, Mississauga, [Material Co-ordinator](#), July 2022 – Present

- o Worked with the Planning, Purchasing and Engineering team to oversee receipt, organization and distribution of the required material and parts for the Research and Development of a series of Hydrogen powered train Engine.
- o Occasionally worked with Engineering Drawings to identify part/product structure of the project.
- o Worked with Bill of Materials and Part Revisions to identify and classify required parts.
- o Used IFS ERP system extensively for the logistics of the Project.
- o Organized shipping of parts and products to Customers.
- o Created Non-Conformance Reports for parts identified as defective or not meeting standard expectations.
- o Worked with the Quality team to deal with RMA requests from Customers to identify parts required for replacing and retrofitting the Returned Products.

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

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

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

- o 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

- o 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. 2017. 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. 2021, 5-member team.

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

JOURNAL PUBLISHED

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