

# JASON RONALDO MERLIN SAHAYARAYAN

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## ACADEMIC QUALIFICATION

### Master of Engineering (MEng)

Mechanical Engineering; University of Windsor (U of W), Windsor, ON.  
Completed in August 2021. **CGPA:** 89%

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

Mechanical Engineering: Panimalar Engineering College (PEC), affiliated to Anna University, Chennai.  
Completed in 2019. **CGPA:** 7.98/10

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## SUMMARY

Driven individual with a **Master's in Mechanical Engineering** seeking real-world experience as **Mechanical Product Design Engineer**. Offers strong interpersonal and task prioritization skills.

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## TECHNICAL SKILLS

- MS-Office Tools
- AutoCAD (PEC),
- CREO Parametric (PEC),
- Siemens Tecnomatix Process Simulate. (U of W)
- CATIA V5 (CADD centre, Chennai, and U of W)
- MATLAB and Simulink (U of W)
- 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

### 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, 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 in Solidworks, Catia V5 or Ansys.

### Freelance, **Product Design**, Chennai, April 2019 – April 2020

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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 6Robot 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.

## WORKSHOPS ATTENDED

**NDT and NVH (3 days)**, December 2018.

**Internet of Things (IoT) (3 days)**, June 2018

**Python Language (10 days)**, May 2018

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## IN-PLANT TRAININGS ATTENDED

**TAFE Ltd., Chennai**, June 11-20, 2018

Different shop floor processes including manufacturing and inspection.

**Uniq Technologies, Chennai**, December 04-09, 2017

Arduino programming for different tasks.

Presentation competition as part of a 1-day Programme on Fluid Power and its Applications held at PEC Chennai.  
1<sup>st</sup> Place in IoT workshop-cum-competition.

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## AWARDS & ACHIEVEMENTS

Presented a poster titled, 'Automation of Welding Using Cascading Control' and secured a Second Place in Poster