

# 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 September 2021. **CGPA:** 89%

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

Mechanical Engineering; Panimalar Engineering College (PEC), affiliated with 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, high attention to detail.

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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

- 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 2021

- o A variable range of designs for clients, and 3D printing.
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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

## IN-PLANT TRAINING ATTENDED

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

Different shop floor processes and inter departmental processes.

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

Arduino programming for different tasks.

## AWARDS & ACHIEVEMENTS

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