

Harini R

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EDUCATION

CEG Campus, Anna University

Bachelor of Engineering in Mechanical Engineering

8.5 - CGPA

Oct 2022 – June 2026

Shri Natesan Vidyasala MHSS

HSC - Higher Secondary Certificate

96%

June 2020 – June 2022



EXPERIENCE

Driver & DAQ Lead - CEG Motorsports (Electric ATV)

April 2024 – Present

- Lead the integration of **sensor-based DAQ systems** to capture roll, pitch, and load metrics, enabling data-driven validation and iterative enhancement of vehicle design.
- Worked as the **operations lead** in our sales presentation and the **senior vehicle dynamics** member.

Intern - TAFE

June 2025 – July 2025

- Studied tractor systems and mapped plant operations including logistics, QC, production, **SCADA** paint shop.
- Performed time study; analyzed plant-wide **CPM** and **PLT**; observed lean methods like Heijunka and Poka Yoke.

Intern - Hyundai Motors India Ltd.

July 2024 – Aug 2024

- Researched automobile **diesel exhaust systems**; observed **wheel balancing**, **wheel alignment**.
- Front End Member assembly palette **timing analysis**

Design Intern - Futaucon Tek Pvt. Ltd.

June 2024 – July 2024

- Tested Clickdraw — a **2D drafting copilot** for SolidWorks — with 50+ 3D model testcases under various conditions.
- Configured the settings for different International Organizational **Standards for dimensioning**.

Silambam Coach – Vaalarivan Silambam Association

June 2021 – Present

- Teaching for about **20** to **25** students and a Referee for District level competitions.
- Practicing silambam for about **8** years.

PROJECTS

Topology Optimization of Steering Knuckle | Solidworks, Fusion, Ansys

July 2025 – Present

- Performing the topology optimization of an ATV steering knuckle using generative design in Fusion; validate load-bearing performance through real-world sensor testing and FEA correlation.

Precision Grinding Wheel Fixture | Arduino, Solidworks, AutoCAD, Ansys

April 2024 – July 2024

- Fixture enables precise stepped rotation of the grinding wheel using a stepper motor to scan its 2D profile for research.

Pneumatic Height Sorter | Arduino

March 2024 – May 2024

- Low-cost pneumatic height sorter controlled by Arduino and IR sensors.

Self-Balancing Delivery Box (SBDB) | Solidworks, Ansys, AutoCAD

Nov 2023 – March 2024

- Designed a self-balancing box to transport food without linear or angular disruptions using a gyro mechanism.
- Achieved stabilization with deep groove ball bearings and polyurethane foam damping; later upgraded to eddy current damping.

ACHIEVEMENTS

AIR 12 in eBAJA 2025

SAE INDIA – CEG Motorsports

AIR 1 in MegaATV 2025

Autosports – CEG Motorsports

2nd Runner up in Ideathon (Aesthetic design of a e-motorcycle)

Raptee.HV and ARAI

2nd in Project Display (SBDB)

Dept. of Manufacturing Eng., AU – CTF Projects

2nd in Variety Show

Kilpauk Medical College – CEG Spartanz

State (2), District (5) and Zonal (3) Level Medalist - Silambam

Vaalarivan Silambam Association

COURSES AND WORKSHOPS

3D Modelling - Solidworks

AUFRG, Anna University

French A1/A2 Level

School of French

IC Engine Workshop

Society of Mechanical Engineering, Anna University

EV Workshop

Electrical and Electronics Engineering Department, Anna University

Engineering behind Mahindra XUV 3XO Walkaround Workshop

Motor Vikatan & MRV

SKILLS

Solidworks, Catia V5, Creo, AutoCAD

Design

Fusion, Altair Motionview, Lotus, Hypermesh, Ansys

Analysis

PPT, Excel, Word

Data Handling

Plant Layout, Time study analysis, Inspection methods

Production

Python, C++

Programming Languages