

Paidi Heamani

+91-9347162205

[heamani.p@gmail.com](mailto:heamani.p@gmail.com)



linkedin.Heamani-Paidi

---

## **Objective**

As someone excited about electrical and electronics engineering, I am on a journey to learn and grow through personal experiences. I aim to apply my diverse background in a work environment. With a commitment to continuous learning and a strong work ethic, my goal is to deliver impactful outcomes that align with the goals and values of the organization.

## **Education**

### **Under Graduation:**

- Course: B.Tech in Electrical and Electronics Engineering
- University: Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore
- Period: 2021- 2025
- CGPA: 8.25/10 (Till Semester 6)

### **Higher Secondary Education:**

- Stream / Subjects: Science with Mathematics
- Institution: Narayana Junior College, Hyderabad
- Period: 2019 - 2021
- Board: State Board of Secondary Education (SSE)
- Marks / Grade: 974/1000 (97.4%)

### **Secondary Education:**

- Institution: Gautami Vidya Kshetra, Hyderabad
- Period: 2018 - 2019
- Board: Central Board of Secondary Education (CBSE)
- Marks / Grade: 576/600 (96%)

## **Experience**

### **Operations and Project Management Intern:**

- Organization: Swan Turbine Services Pvt. Ltd.
- Location: Hyderabad.
- Period: June 2024 – July 2024.

## **Positions of Responsibility**

**Sponsorship Head** - Anokha'24, Tech Fest of Amrita Vishwa Vidyapeetham (Jan2024 – Present)

**President** - Amrita Toastmasters Club (July 2023 – Dec 2023)

**Vice President of Membership** - Amrita Toastmasters Club (Jul 2022 – June 2023)

## **Areas of Interest**

- Power Electronics
- Electric Drives and Controls

## **Projects**

### **Project 1: Smart Home Energy Management System integrated with Solar Tracker**

- Duration/Period: January – May (2024)
- Objective: To design a Home Energy Management System with and without a solar tracker to compare the system's efficiency in power production.
- Tools or techniques used: MATLAB
- Outcome: As confirmed by MATLAB Simulink simulations, a solar tracker boosts SHEMS performance, increasing battery efficiency by 61.52% and grid power delivery by 62.597%.

### **Publication:**

- Paper accepted for publication in the **AIP Conference Proceedings of ICAPSM, August 29 - 30, 2024.**

### **Project 2: Drowsiness detection integrated with lane positioning and object Detection**

- Duration/Period: February - May (2024)
- Objective: To design a car that monitors the eye blink of the driver, if found asleep checks for the vehicles around, and if found nothing, automatically parks the car in the left lane.
- Tools or techniques used: Arduino UNO.
- Outcome: It could successfully park the car in the left lane, and if any object was detected, the model just moved forward.

## **Other Technical Qualifications**

- Programming languages: C, Python.
- Software: MATLAB, ETAP, Arduino UNO.

## **Certification and Courses**

- Self-Placed Online Courses on Simulink (Guided Project – MATLAB).

## **Extra-Curricular Activities**

- A Toastmaster with Presentation Mastery Pathway and Pathways Mentor Program Completion, 3<sup>rd</sup> place winner in Area Level Humorous Contest, Contest Chair for Pick it UP'23, Registration Head for Meet the Moguls – event in Anokha'23.
- Member of Amrita Centre of Entrepreneurship, Nature Club and NSS Club.

## **Personal details**

- Date of Birth: 19<sup>th</sup> October 2003.
- Language proficiency: English (Professional), Hindi (Native), Telugu (Native), Tamil (Beginner).
- Hobbies: Reading, Travelling, Cooking.
- Contact Address: Room No: E125, Gargi Bhavanam, Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore, Tamil Nadu.