**Curriculum vitae**

Hemananth U

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# Professional Summary:

## As a fresher entering the software development field, I bring a strong appetite for learning and a passion for problem-solving. With a solid foundation in programming languages and a commitment to continuous growth, I am poised to contribute to cutting-edge software projects and make a positive impact. My enthusiasm, attention to detail, and dedication to staying current in the industry make me an asset to any organization.

**Experience: Intern-Delivery at Virtusa Consulting Services Pvt Ltd**

**(Jan 3, 2023 - Mar 30, 2023)**

**Throughout the duration of my internship at Virtusa, spanning from Jan 2023 to Mar 2023, I was assigned the responsibility of acquiring proficiency and achieving certification as an AWS Certified Solutions Architect Associate, an objective that I effectively accomplished.**

# Skill set:

## Programming Languages: C, Java.

* **Software: Robo DK, Robot-Studio, MOTOSIM, ROS, Fusion 360, Tinker CAD.**
* **Other software & related skills: Microsoft Office, Touch Typing** (speed 30-45 wpm).
* **Soft skills: Problem-Solving, Adaptability, Attention to Detail, Teamwork, Continuous Learning.**
* **Languages: Tamil, English.**
* **Skills under learning: Python, JavaScript, SQL.**

**Certifications: AWS Certified Solutions Architect - Associate (HEQ03L5CZ1F4QD5T)**

# Education:

## Bachelor of Engineering in Robotics and Automation

**Sri Ramakrishna Engineering College (SREC), Coimbatore** (2020 – 2023)

**CGPA: 7.82 (first-class graduate)**

## Diploma in Electrical and Electronics Engineering

**M.I.T. Polytechnic College, Mettur** (2017 – 2020)

**Percentage: 89 (first-class honors with distinction)**

## SSLC

**St. Mary's Matriculation Higher Secondary School, Mettur** (2016 – 2017)

**Percentage: 69.4**

# Projects:

## Project Title: Radio-Controlled Airplane Using a 2.5 GHz Six-Channel Transmitter and Receiver

**Objective:** Develop a low-cost aerial transporter for efficient tool and package delivery.

**Duration:** 6 months (Diploma Final Year Project)

**Description:** Designed and built a radio-controlled airplane with a 2.5 GHz transmitter and receiver system. Implemented a payload mechanism for precise delivery of tools and packages.

**My role:** lead designer and developer.

**Outcomes:** Demonstrated the feasibility of using radio-controlled aircraft for remote deliveries, showcasing innovation and practical problem-solving skills.

## Project Title: Cognitive Face Recognition System

**Objective:** Create an alternative attendance system using facial recognition technology.

**Duration:** 3 months (Project, 3rd–4th Semester)

**Description:** We developed a cognitive face recognition system to automate attendance management. utilized machine learning techniques to identify and authenticate individuals.

**My role:** lead designer.

**Outcomes:** Successfully replaced traditional attendance methods, improving efficiency and accuracy in tracking attendance records.

## Project Title: AGV using Omni-Wheel for Warehouse Transportation

**Objective:** Implement automated guided vehicles (AGVs) with omni-wheels for streamlined warehouse logistics.

**Duration:** 5 months (Project, 5th–6th Semester)

**Description:** Designed and developed an automated guided vehicle (AGV) equipped with omni-wheels to efficiently transport packages within warehouses. Integrated sensor systems for navigation and obstacle avoidance.

**My role:** lead designer.

**Outcomes:** Successfully demonstrated the capability of AGVs to optimize warehouse transportation, reducing manual labor, and enhancing operational efficiency.

## Project Title: Real-Time Person Detection Robot with LoRA Communication

**Objective:** Create a robot capable of detecting humans in disaster scenarios using LoRA communication.

**Duration:** 6 months (Project, 7th–8th Semester)

**Description:** We designed and constructed a real-time person detection robot equipped with LoRA communication for disaster response scenarios. integrated sensors and algorithms for accurate human detection.

**My role:** lead developer.

**Outcomes:** Developed a robust robot prototype for identifying humans in hazardous situations, showcasing a blend of technical skills and problem-solving abilities.

# Declaration:

**I hereby declare that the information furnished by me in the above document is correct and accurate to the best of my knowledge.**

**Place:**

**Date: (Signature)**