

Ajay Kumar M

Electronics and Communication Engineering

Bachelor of Engineering

Sahyadri College of Engineering and Management, Mangaluru

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GitHub Profile

LinkedIn Profile

TECHNICAL SKILLS AND INTERESTS

Languages: Java, c++, Embedded C, Verilog.

Softwares: Matlab, Cadence Virtuoso, Autodesk Eagle, Eclipse, LTspice.

Soft Skills: Collaboration, Leadership, Event Management.

Areas of Interest: Embedded systems, VLSI Design, PCB Design and Circuit simulation, Robotics .

EDUCATION

•Sahyadri College of Engineering and Management, Mangaluru

2026

Bachelor of Engineering in Electronics and Communication Engineering & Engineering

•St Aloysius Pre-University College, Mangaluru

2022

Karnataka Secondary Education Examination Board, Karnataka

•BGS High School, Mangaluru

2020

Karnataka Secondary Education Examination Board

PROJECTS

•Multi Spectrum Human detection and Autonomous Maritime Rescue System

A system which detects and rescues people in shores and water bodies by usage of an autonomous boat.

- Tools & technologies used: Yolo V8, Ultralytics, Raspberry pi library, Python Library.
- The system is divided into a detection system on-shore which communicates with an autonomous boat in the water body to identify and reach people approaching danger and bring the to shore.

•UART-Based Digital Car Dashboard with Web Interface

Developed a real-time analytics dashboard to track and visualize car data.

- Tools & technologies used: Embedded C, STm32, MPU3060, Esp32, Arduino
- Used STm32 microcontroller as the receiver and hub for all the sensor data to be collected and the data is being sent to the Esp32 microcontroller which is then displayed in the the webserver interface.

CERTIFICATIONS / ACHIEVEMENTS

•**Technex' 25:** Secured 2nd place in Botstacle Challenge held in IIT BHU(Varanasi). [!\[\]\(dcadc17c064c775919616fcc152162e9_img.jpg\)](#)

•**Java Concepts:** Brief introduction to java and its concepts.

Infosys Springboard

POSITIONS OF RESPONSIBILITY

•**Volunteer, Aerophilia 2023:** Nov 2023

•**Member, Team Challengers:** Oct 2023 - Present