

# Bhavya Bachu

Embedded Engineer



Hyderabad. India



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## SKILLS

Python, C, C++

Embedded C

Linux, Windows, Matlab

8051µC, ARM

I2C, SPI, CAN, UART

MQTT, TCP-IP, UDS

GIT, JIRA, Bit-Bucket.

## EDUCATION

EMBEDDED TRAINING  
Vector India  
2022 – 2023

BACHELOR'S DEGREE  
Ace Engineering College  
2017– 2021

Engineering Project: The Order Reduction of Higher Order Continuous Time MIMO Using Modified Pole Clustering and Simplified Routh Approximation Method.  
Role: Team leader

### CO-CURRICULAR ACTIVITIES:

- Participated in the 3 days National Level workshop on "Industrial Automation & Electrical Installations IAEI- 2018"
- Participated in the 2 days National Level Students Hackathon "HACK FEST 20" on "Industrial IoT, Women & Child Safety"
- Participated in the workshop on Artificial Intelligence & Machine Learning organized by ACEGLUG under SWECHA.

## PROFESSIONAL SUMMARY

Over 2 years of experience in design, development of embedded system using Python.  
Pro-active and highly motivated Software Engineer with experience in all aspects of the software development life cycle.

## PROFESSIONAL EXPERIENCE

EMBEDDED ENGINEER  
OTIS LEAD DESIGN CENTER

FEB 2023 – DEC 2024

### WORK HISTORY:

- Working on different POC'S
- Worked on Requirement analysis, Design of TCP-IP Module.
- Worked on Requirement analysis, Design of Security ACL Authorization.
- Development of UART Framework.
- Development of Scripts to reduce the Technician Site Visit.
- Involved in various Production events for releasing the software.
- Worked on Software Release process.
- Worked on Voice and Video Application, Commcheck,
- Supported for feature testing and system testing.

### Achievements in Work History:

- One of the POC implemented and went for production in OTIS.
- Two Designs have been selected for developing.
- Listed two Best ideas for innovation and patented as part of Women in Technology Ideation Event.

### PROJECT INFO:

#### 1) Variotech HouseKeeping:

Overview: This ticket is a POC and implementation to check the feasibility to add an external housekeeping module which can send the house keeping alarms (elevator movement with doors open, car leveling acceptable, 3rd Party PCB's Health monitoring, Technician Present, Lift safe restarted, Bus failure) by connecting the module to Gateway on UART2. The respective alarms should be populated to Cloud.

#### 2) Support for pilot testing for Variotech HouseKeeping at Gien test tower.

#### 3) Requirement Analysis, Design of TCP-IP Module.

#### 4) Requirement Analysis, Design of security ACL Authorization.

#### 5) Activate VR and VRQ on Speaker/Microphone Test.

#### 6) POC and Implementation on Direct script execution for different controllers to reduce the CPU load and Memory utilization and calculate the KPI metrics.

EMBEDDED TRAINING  
VECTOR INDIA

JUN 2022 – FEB 2023

**Practical Project 1: ADAS Validation Solution and Rest Bus Simulation for Vehicle ECU**  
**Description:** Building a solution for validating Autonomous Driving ECU. Simulating different scenarios with IPG Car Maker. Created rest bus simulation for CAN to ADAS ECU.

### Practical Project 2: RFID Based Security System

**Description:** Building security system using RFID. RFID Technology (Radio Frequency identification and Detection) is commonly used in schools, colleges, office and station for various purposes to automatically authenticate people with valid RFID tags. Here we will check the RFID tag, along with a password associated with the tag, to secure the system.