

## Nadiminti Jeevan

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### EDUCATION

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#### **Bachelor of Engineering (Electronics and Communication)**

MVGR college of engineering

June 2020 -May 2024

**CGPA 7.26/10**

#### **Class 12<sup>th</sup>-State Board**

Sri Chaitanya junior college

June 2018 – March 2020

**CGPA - 8.40/10**

#### **Class 10<sup>th</sup> - State Board**

Ravindra Bharathi School

June 2017 – March 2018

**CGPA -9.5/10**

### SKILLS

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**Programming:** C Programming (Advanced), Embedded C, MATLAB, Assembly Language.

**Application Software:** STM32Cube IDE, LabView, Proteus, Arduino Ide, SolidWorks, Ki Cad, Easy EDA.

**PCB Design:** Ki Cad, Easy EDA.

**Hardware:** Oscilloscope, Digital Multimeter, PCB Design & Soldering, Sensors (IR, Ultrasonic, Gas, Load).

**Protocols & Debugging:** UART, CAN, I2C, SPI, TCP/IP, RTC, GSM Modules.

### RELEVANT EXPERIENCE

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#### **Embedded Electronics Engineer Intern | Electromotor E-Vidyut Vehicles Pvt Ltd | Pune, India**

**Nov-2024 -Present**

- Contributed to firmware development for EV dashboards using STM32 microcontrollers, working with communication protocols such as UART, CAN, RTC, Timers, GPS, and GSM modules.
- Designed and developed PCB layouts using Easy EDA and Ki Cad; performed precision soldering for both SMD and Through-Hole (TH) components to ensure reliable hardware assembly.
- Collaborated on wire harness design for electric vehicles using SolidWorks Electrical, streamlining wiring layouts and improving system integration.
- Gained hands-on experience in embedded system design for EV automotive applications, focusing on hardware-software interfacing and real-time data processing.

#### **Embedded Engineer Trainee | PHYTEC Embedded Pvt Ltd | Visakhapatnam, India**

**May 2024 -Nov 2024**

- Advanced C Programming:** Developed and debugged numerous C programs, focusing on advanced concepts such as memory management, pointers, and data structures to create efficient and robust code.
- Microcontroller Training:** Gained hands-on experience with STM32 microcontrollers, including interfacing with various peripherals such as GPIO, UART, CAN, I2C, and SPI. Implemented and optimized communication protocols for effective data exchange.
- Linux Device Drivers:** Acquiring practical skills in Linux-DD by working on device driver development and debugging, enhancing system performance and hardware-software integration.

### ACADEMIC PROJECTS

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#### **SMART ALERT ON LPG LEAKAGE AND AUTOMATIC LPG BOOKING SYSTEM**

- Developed a system that detects LPG gas leakage and alerts the consumer via SMS using a GSM module and activates an alert through buzzer.
- Implemented a safety mechanism that turns off the LPG cylinder knob using a servo motor to prevent potential hazards.
- Integrated a load sensor to continuously monitor LPG levels; the system automatically books a new cylinder when the gas level falls below a predefined threshold.
- Enhanced safety by preventing suffocation and explosions due to gas leakage, while also streamlining the gas reordering process.

#### **SMART GARBAGE MONITORING SYSTEM**

- Developed a sensor-based waste management solution using Arduino, IR sensors, servo motors, and GSM modules to automate waste segregation into dry, wet, and metallic categories, enhancing recycling and reuse.
- Implemented a system where bin lids open automatically upon detecting a user with IR sensors, and waste is sorted into appropriate categories. Integrated ultrasonic sensors for real-time monitoring of waste levels.
- Utilized GSM modules to send alerts to sweepers and higher authorities when bins reach critical fill levels, ensuring timely waste collection and efficient management.

### CERTIFICATIONS

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- Approved by **JP Morgan Chase & Co** as a Software Engineering through Forage.
- An Industrial training Internship at Visakhapatnam Port Authority.
- Certification on Arduino from LinkedIn Learning.

### ACHIEVEMENTS

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- Maharaja science expo - Project Engineer- 12/2022.
- Elected as Class Representative for 4 years of B.Tech.
- Co-Ordinator of the Electronic Hobby Club and FYFP of the ECE Department.