

## HARIKA POTTURI

[harikapotturi1313@gmail.com](mailto:harikapotturi1313@gmail.com) | +91 9392197156 | [www.linkedin.com/in/harika-potturi-667110245](https://www.linkedin.com/in/harika-potturi-667110245)

Highly motivated and detail-oriented electronics graduate with a strong foundation in embedded systems and electronics. Seeking an entry-level position to leverage my skills in hardware and software development in a dynamic and growth-oriented company.

### EDUCATION

<b>St. Ann's College of Engineering and Technology, Chirala</b>	<b>Aug 2019– May 2023</b>
Bachelor of Technology in Electronics and Communication, GPA: 7.56/10	

### EXPERIENCE

<b>Embedded Developer Intern: Ilensys   Hyderabad, India</b>	<b>Feb 2023 – Jul 2023</b>
--	----------------------------

- Proficient in LTspice for electronic circuit design and simulation. Designed and simulated various circuits relevant to embedded systems, such as Op-Amps, voltage regulators and ADCs to analyze their functionality and performance.
- Completed assignments in embedded system design, utilizing LTspice to simulate circuits relevant to interfacing with microcontrollers and signal processing. This experience fostered my problem-solving and analytical skills while deepening my understanding of embedded systems concepts.

### TECHNICAL SKILLS & TOOLS

- |                 |                        |                    |
|-----------------|------------------------|--------------------|
| • C Programming | • TCP/IP               | • LT Spice         |
| • C++           | • 8051 Microcontroller | • Proteus (Basics) |
| • Embedded C    | • Keiluvision4         | • Linux            |

### PROJECTS

<b>Smart Power Saving in Trains</b>	<b>Nov2022 – Apr 2023</b>
-------------------------------------	---------------------------

- Developed an embedded system using Arduino UNO to monitor and optimize energy consumption in railway systems.
- Implemented software to analyse real-time sensor data from IR sensors for passenger detection and LDR sensors for ambient light detection to dynamically adjust power usage.
- Utilized Arduino IDE for programming and simulation to test and refine system functionality.
- Achieved a projected/estimated energy consumption reduction of nearly 50% through intelligent sensor-based power control.
- Collaborated with team members on hardware selection, system integration, and testing.

<b>Industrial Monitoring System Using IOT</b>	<b>Apr 2024 – May 2024</b>
---	----------------------------

- In this project I used an ARM7 development kit which has on chip LPC2129 and various other peripherals.
- Peripherals: - ESP01 WI-FI module for internet connection, MQ2 sensor for gas detection, LM35 sensor for temperature detection, AT25LC512 SPI based EEPROM for memory, LCD for displaying sensor values, 4\*4Keypad matrix for setpoint update and a Switch.
- Updated sensor values on thing speak a cloud-based from MathWorks when values exceeded the setpoint and keiluvision4 for developing the program.
- Protocols used: - UART Interrupts, SPI.

### CERTIFICATIONS

- |                                      |                            |
|--------------------------------------|----------------------------|
| • Embedded Systems from Vector India | <b>Oct 2023 – May 2024</b> |
| • Azure Fundamentals by Microsoft    | <b>Apr15-2023</b>          |