

NARAYANASETTI SIREESHA

Embedded Engineer

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SUMMARY

Enthusiastic and skilled **Embedded Engineer** with a solid foundation in embedded C, microcontroller programming, and hardware-software integration. Seeking an entry-level position to apply technical and problem-solving skills, while contributing to impactful engineering solutions and advancing in a collaborative environment.

EXPERIENCE

Design Engineer, Ecoled Illuminations Pvt Ltd, Hyderabad Dec 2024 - Present

- Designed and developed efficient AC-DC and DC-DC LED drivers for lighting applications.
- Worked on circuit design, PCB layout, component selection, and testing.
- Ensured compliance with safety, EMI/EMC standards, and improved product reliability.

Embedded Systems Intern, IGNITED MINDS ORGANISATION, Hyderabad May 2024 - Jun 2024

- Developed custom symbols and footprints.
- Used 3D Viewer for PCB design verification.
- A small project on Buck Converter.

SKILLS

Programming Languages : C, Python, C++

Electronics : Analog and Digital Electronics, Arduino, ESP-32, Communication Protocols, Embedded Systems, Microprocessors, Intel 8085, 8086, Microcontrollers(8051, ARM, PIC)

Tools : Orcad, PSIM, TinkerCad, KiCad, Matlab, Xilinx

Soft Skills : Problem Solving, Creative, Innovative, Communication, Leadership, Team Management

PROJECTS

Advanced Flicker Free LED Driver, [Link](#) Jan 2025

- Designed LED driver circuits with advanced flicker-free technology to ensure stable light output and user comfort. Implemented high-frequency switching, optimized dimming control (PWM and analog), and precise current regulation to eliminate low-frequency ripple and stroboscopic effects.

IOT Based Health Monitoring System Using ESP-32 Webserver, [Link](#) Jul 2024

- IoT-Based Patient Health Monitoring System Developed a real-time health monitoring system using ESP32 Web Server to track heart rate, body temperature, and oxygen saturation via biomedical sensors. Enabled remote data access through Wi-Fi and implemented alerts via email/SMS for abnormal parameters. Designed for scalability, cost-effectiveness, and applications in hospitals, home care, and remote areas.

Light Automation Using Bidirectional Visitor Counter, [Link](#) Dec 2023

- The concept behind this project is to cut power supply when there is no one in the room, thus reducing energy consumption, and also we have to save the power in future generation.

Controlling Dual Axis Solar Panels with Arduino, [Link](#) Jul 2023

- The main theme of this project is we have to save the power by using solar panels. The panels are designed to track the sun's movement in two directions, which allows them to capture more sunlight throughout the day. By controlling these panels using Arduino, we can optimize their performance even further. So, We have to consume more power by using sun.

I2C Communication using Arduino, [Link](#) Feb 2023

- The primary focus of this project involves connecting an Arduino to an LCD display using I2C communication to showcase text on the LCD.

EDUCATION

Rajiv Gandhi University of Knowledge Technologies, Srikakulam, India - B.Tech, Electronics and Communication Engineering - GPA: CGPA - 8.85 Jun 2021 - Apr 2025

Rajiv Gandhi University of Knowledge Technologies, Srikakulam, India - Pre University Course, - GPA: CGPA - 9.29 Aug 2019 - Apr 2021

Zilla Parishad High School Mandarada, Srikakulam, India - Highschool, SSC - GPA: CGPA - 10.0 Jun 2018 - Apr 2019

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge and belief.