Achyut Heygriv

Hyderabad, India • +91 79812658307 • ACheyut523prime@gmail.com
linkedin.com/in/achyut-heygriv • github.com/ACprime4385 • acprime4385.github.io/Portfolio/

SUMMARY

Electronics & Communications Engineering student specializing in embedded systems and IoT. Proficient in C/C++ and Python with hands-on experience designing and programming hardware from concept to deployment. Looking for challenging opportunities in the electronics, automotive, or robotics sector to leverage skills in real-time telemetry and circuit design.

EDUCATION

Christu Jyothi Institute of Technology and Science — **Jangaon, India**
B.Tech - Electronics & Communications Engineering — **Expected: May 2026**
CGPA: 8.2/10

Sri Chaitanya College of Education — **Hyderabad, India**
Higher Secondary Education (MPC) — **May 2022**
Score: 956/1000

TECHNICAL SKILLS

Languages: C, C++, Python, HTML5, CSS (Tailwind), JavaScript
Hardware: Arduino UNO, Raspberry Pi 2, IR Sensors, L293D/H-Bridge, Ultrasonic/PIR Sensors, DHT22
Tools & Frameworks: Flask-SocketIO, Eventlet, Git/GitHub, VS Code, Arduino IDE
Core Concepts: Embedded Systems, IoT Telemetry, Data Analysis, AI Fundamentals, Prompt Engineering

ENGINEERING PROJECTS

ARES (Autonomous Rover for Environmental Sensing) | *IoT, Python, RPi*

- Engineered a complete IoT robotics platform utilizing a Raspberry Pi 2, integrating a multi-sensor array (Dual Ultrasonic, Dual PIR, DHT22) with an L293D motor driver for autonomous obstacle avoidance.
- Developed a high-performance, multi-threaded Python backend using Flask-SocketIO and Eventlet, overcoming hardware latency to achieve millisecond-level bi-directional telemetry streaming.
- Designed a responsive "Mission Control" web dashboard using HTML5, JS, and Tailwind CSS, enabling seamless remote monitoring and precise manual control over a local WiFi network.

Wireless DC Motor Controller | *C++, Arduino, Circuit Design*

- Engineered an embedded system to provide precise wireless control over a DC motor using an IR remote interface.
- Programmed an Arduino UNO in C++ to interpret incoming IR signals and actuate an H-Bridge motor driver, achieving a greater than 98% command execution success rate.

Project Genesis - Innovation Showcase | *Strategic Planning, Web Design*

- Conceptualized an innovation initiative framework and launched a professional web platform using B12 to articulate the technical vision to stakeholders.

CERTIFICATIONS

Prompt Design in Vertex AI (Google) | **Data Analysis (Internship Studio)**
Explore Engineering Job Simulation (GE Aerospace) | **Embedded System with Arduino (GeeksforGeeks)**