

GOKULAN P M

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PROFILE SUMMARY

Electronics and Communication Engineering student with strong foundation in Analog and Digital Electronics, MOSFET operation, Network Theorems, RC circuits, and Amplifiers. Passionate about VLSI and semiconductor device physics with keen interest in Analog Physical Design and layout impact on circuit performance. Seeking to apply circuit-level understanding in advanced technology nodes.

KEY SKILLS AND TOOLS

Core Electronics: Network Theorems, MOSFET Basics, RC Circuits, CMOS Logic, Amplifiers, ADC/DAC

Programming : C, C++, Python

Tools & OS : Linux (Ubuntu), Git, GitHub, MATLAB, Tinkercad

Embedded & Hardware : ESP32, ATmega328, PCB basics, Sensor interfacing, PWM, ADC, Soldering

Additional Exposure : Cloud, Docker, CI/CD pipelines

PROJECTS

Smart Home AC Energy Monitoring System (ESP32 – IoT)

Designed and implemented an AC signal measurement system using voltage divider and current sensing circuits

Applied RMS calculations and filtering techniques for accurate analog signal processing

Analyzed signal noise and implemented filtering methods for stable measurement

Worked extensively with ADC modules for real-time data acquisition

ESP32, MQTT, Node-RED, Embedded C

Line Follower Robot (ATmega328 – Custom Hardware)

Designed analog IR sensor interfacing circuits using voltage comparators

Implemented PWM motor control using microcontroller timers

Analyzed RC response time and sensor threshold behavior

Performed hardware debugging and signal validation using multimeter and oscilloscope

ATmega328, Embedded C, IR sensors, PWM, ADC

CI/CD Automation Pipeline

- [GitHub](#)

Designed and implemented an end to end CI CD pipeline to automate build, test, and deployment workflows

Built Jenkins pipelines to automate deployment of a containerized application

Containerized the application using Docker and managed source code using Git and GitHub

Pushed container images to DockerHub and focused on fast and reliable automated deployments

Jenkins, Docker, Git, GitHub, DockerHub, Python

EDUCATION

Bachelor of Electronics and Communication Engineering

Sri Krishna College of Engineering and Technology

2023 – 2027 | CGPA: 8 / 10

Relevant Coursework : Analog Electronics, Digital Electronics, Electronic Devices, Linear IC, Signals & Systems