

GOLLAPALLI GREESHMA

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Personal Summary

Dedicated and adaptable professional with proactive attitude and ability to learn quickly. Strong work ethic and effective communication skills. Eager to contribute to dynamic team and support organizational goals.

Technical Skills

- C and C++ programming
- Embedded systems development
- Data structures and algorithms
- Python programming
- UART communication
- I2C protocol
- SPI interface
- CAN bus technology
- Linux
- GCC and KEIL5 proficiency
- ARM7 (LPC 2129) and 8051 microcontrollers
- Ultrasonic sensor (HC-SR05)
- Temperature sensor (MCP9700)
- GPIO
- Timers/Counters
- PWM and ADC
- Real-time clock
- Watchdog timer

Qualifications

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|-------------|-----------------------------------|
| 05/2022 | B.Tech in ECE |
| Madanapalle | Aditya College of Engineering |
| | Percentage: 75.08% |
| 05/2018 | Intermediate in MPC |
| Madanapalle | Sri Siddartha Junior College |
| | Percentage: 89.9% |
| 05/2016 | S.S.C |
| Madanapalle | Vivekananda Municipal High School |
| | GPA: 9.2 GPA |

Qualification Summary

- B.Tech(ECE), Aditya College of Engineering, Madanapalle, Jawaharlal Nehru Technological University Anantapur, 05/22, 75.08%
- Intermediate, Sri Siddartha Junior College, Madanapalle, Board of Intermediate Education, 05/18, 89.9%
- S.S.C, Vivekananda Municipal High School, Madanapalle, Board of Secondary Education, 05/16, 9.2 GPA

Certifications

- Completed Advanced Embedded Systems course at VECTOR INDIA, Bangalore

Projects

- **FPGA IMPLEMENTATION OF OPTIMIZED KOGGE-STONE ADDER FOR HIGH SPEED APPLICATIONS**, We designed and implemented high-speed, low-power Kogge-Stone adder on FPGA, minimizing critical path delay and achieve fast addition.
- **REVERSE PARKING ASSISTANCE SYSTEM IN CAR USING CAN PROTOCOL**, Our reverse parking assistance system activates when **reverse gear** is engaged. It transmits signal to receiver, which uses **HCSR05 ultrasonic sensor** to detect obstacles and calculate distance. This information which is real time feedback is then transmitted back to driver using **UART**, ensuring safe, guided, precise reverse parking experience.
- **SECURE VOTING SYSTEM IMPLEMENTATION USING C-PROGRAMMING**, Through this project we developed simple and secure voting system that allows users to cast votes through **Voting Panel** and enables administrator to manage candidates and view election results through **Admin Panel**. This system ensures data persistence using file handling by storing candidate names and their respective vote counts in separate files.
- **SMART HOME CONTROL SYSTEM USING BLUETOOTH(HC-05), LPC2129, UART**, we designed and implemented **smart home automation system** that allows users to remotely control home appliances using Bluetooth communication. This system is based on **LPC2129 microcontroller** and utilizes **HC-05 Bluetooth module** for wireless connectivity and **UART** protocol for data communication.
- **SECURE DOOR ACCESS CONTROL SYSTEM WITH PASSWORD AUTHENTICATION USING 8051 MCU**, When user inputs password through keypad, **8051 microcontroller** compares this input with pre-defined **password** stored in memory. If password is correct, this system triggers relay to unlock door. If password is incorrect after a set number of attempts, system activates **buzzer** or security alert.

Disclaimer

I hereby declare that above furnished particulars are true to best of my knowledge and belief.

Languages

Telugu: First Language

English: C2

Proficient (C2)

Websites

- <https://www.linkedin.com/in/greeshmagollapalli>
- <https://github.com/Greeshma23-cmk>
- <https://bold.pro/my/5274-250428104735>