

PRAJWAL GOWDA M

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OBJECTIVE

Final year Electronics and communication Engineering student with skills in Java, Python, c,c++(basics).Passionate about full-stack web development with strong problem-solving and software engineering abilities.

EDUCATION

- JSS Academy of Technical Education** December 2022- Present
B.E. in Electronics and communication and Engineering
◦ CGPA: 7.5 Bengaluru, India
- STG PU COLLEGE** 2022
Pre-University Education Mandya
◦ Grade: 89.33
- Nirmala Higher Primary School** 2020
Secondary Education Mandya
◦ Grade: 88.32

SKILLS

- Programming Languages:** C, C++, Python (Basics),
- Tools / Platforms:** Git, GitHub, VS Code, MATLAB , Arduino IDE, HTML/CSS

PROJECTS

- Project A: [Foot Step Power Generation Using Piezoelectric Sensor]**
 - A network of piezoelectric sensors embedded in floor tiles converts mechanical stress from footsteps into electrical energy through the piezoelectric effect.
 - Generated voltage from each sensor is collected, conditioned via rectifiers and voltage regulators, and stored in capacitors or batteries for later use.
 - The harvested energy powers low-consumption devices (e.g., LED lighting or wireless sensors), demonstrating a sustainable, on-site renewable energy solution for smart buildings.
- Project B: [Secure Visual Data Processing: Image Encryption and Decryption through Reversible Logic Gates in VLSI Design]**
 - Design and implement a VLSI architecture using reversible logic gates (e.g., Toffoli and Fredkin gates) to perform real-time encryption and decryption of visual data streams with minimal energy dissipation.
 - Develop a secure data path integrating reversible gate networks for pixel-wise permutation and substitution, ensuring lossless recovery of original images while thwarting unauthorized access.
 - Validate the design through HDL simulation and FPGA prototyping, analyzing metrics like power consumption, area overhead, and encryption throughput for scalable secure imaging systems
- Project C: [Air and Weather Quality Monitoring System]**
- Project D: [Implementation of 5-Stage Pipeline MIPS Architecture]**

CERTIFICATIONS

- programming in python
- internet of things from NPTEL
- data structures in C++ form NPTEL

ACHIEVEMENTS

- Solved 120+ problems across all coding platforms. Profiles - [GeeksForGeeks](#), [LeetCode](#)
- Complete Arduino for Beginners -Udemy
- Full stack Development -GeeksforGeeks