

MADAN PRAKASH

LinkedIn - [Madan prakash](#) | ksmadanprakash@gmail.com | GitHub - [Madanprakash07](#) | +91 9840215374

EXPERIENCE

Engineering Intern - MultiTech Systems Industrial Automation

May 2024 – June 2024

- Completed a six-week internship with the electrical panel team, applying basic circuit and hardware knowledge.
- Assisted in automation-related tasks, involving panel layout, wiring and hardware interfacing.
- Explored PLC hardware, I/O modules and basic programming aligned with embedded control systems.

Research Intern - Chennai Institute of Technology

November 2024 – December 2024

- Assisted in studying advanced techniques for leakage power reduction using adiabatic logic and other approaches.
- Co-authored research papers focused on innovative solutions for low-power and efficient circuit design in the VLSI domain.

SKILLS

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|-------------------------------|-----------------|
| • Verilog HDL | • Embedded C |
| • Circuit Design | • C/C++ |
| • Electrical Components | • Java |
| • Panel Wiring | • Python |
| • Microcontroller Programming | • OOPs Concepts |
| • ARM ISA | • HTML & CSS |

EDUCATION

B.E Electrical and Electronics Engineering
Chennai Institute of Technology

CGPA: 8.4
2023-2027

ACHIVEMENTS

Winner – SRM ARC'2025

- Developed a GSM controlled soil testing robot capable of predicting soil nutrients and real-time data transmission for agricultural applications.
- Programmed the communication system using NeoSWSerial for seamless data transfer via GSM and Bluetooth module.

CERTIFICATIONS

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|---|--|
| • NPTEL – Embedded System design with ARM | • NPTEL - Fundamentals of Automotive Systems |
| • MATLAB Onramp | • Coursera – Building a Modern Computer |

MINI PROJECTS

8-bit ALU using Verilog

[Link](#)

- Designed a 32-bit Arithmetic Logic Unit (ALU) using Verilog HDL to perform arithmetic, logical and comparison operations. Created a comprehensive testbench to simulate and verify functionality under various scenarios.

Motor Controller using 8051

[Link](#)

- Simulated a motor controller with keypad functionality using the 8051 controllers. Programmed in C language to enable motor control based on user input from the keypad.