Aditya

GitHub| LinkedIn | LeetCode | HackerRank

EDUCATION

B.E. in Electronics and Communication Engineering	*2023 – 2027*
M S Ramaiah Institute of Technology, Bangalore	*CGPA:8.65*
Pre-University Education	*2021 – 2023*
Sri Vidyaniketan PU College, Karnataka	*Percentage: 94%*

TECHNICAL SKILLS

Languages: C, C++, HTML, CSS, JavaScript, Verilog,Systemverilog

Libraries/Tools: OpenCV, Git, Arduino IDE, Multisim, MATLAB,FluxAI,KiCAD

OS: Windows,Linux

Documentation: L^{A}TEX, MS Office

LANGUAGE PROfiCIENCY

Kannada (native), English (fluent), Hindi, Telugu

PROJECTS

Hardware Accelerator for Neural Network Inference (SystemVerilog)

   – Designed a sparsity-aware INT8 neural network accelerator implementing parallel MAC units, bias addition, quantization, and FSM-based control.

   – Built a modular verification environment using SystemVerilog interface, transaction, randomized generator, and driver to validate functionality through constrained random stimulus.

Astable Multivibrator Using 555 Timer

   – Designed and fabricated a PCB-based astable multivibrator using a 555 timer to generate continuous square-wave pulses.

Laser and Ultrasonic House Protection System

Arduino UNO

- Integrated laser and ultrasonic sensor to detect intruders.
- Simulated real-time alerts using Bluetooth module and mobile app.

Travel Website Clone *HTML, CSS, JavaScript*

- Developed front-end using HTML and CSS.
- Added interactivity and animations with JavaScript.

ACHIEVEMENTS

- Top 15 in "CodeRIT" event - 22 Yards of Programming.
- Participated in PCB Workshop at IISc (Indian Institute of Science).
- Completed Google Python Crash Course on Coursera.

INTERESTS

- Lasers, Sensors, Hardware Chips, Robotics, Open-source Projects

CERTIfiCATIONS

- Oracle AI Certification -Oracle University