

SUMIT HARALI

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PROFESSIONAL SUMMARY

Final-year Electronics and Communication Engineering student with a strong foundation in VLSI design, digital logic, and hardware description languages. Skilled in Verilog HDL with hands-on experience using Xilinx for design and simulation, alongside C, Python, and MATLAB for supporting analysis and scripting. Built and documented independent hardware and embedded projects from concept through working prototype, applying structured digital design principles throughout. Seeking an entry-level VLSI Design internship or role to apply RTL design and digital logic fundamentals to real chip-level design work.

TECHNICAL SKILL

VLSI & Digital Design: Verilog (HDL), Digital Logic Design, RTL Design Fundamentals, Xilinx

Simulation & Verification Tools: Xilinx, iverilog, LTspice, Multisim

Programming & Scripting: C, Python, MATLAB, Assembly (8051, ARM Cortex-M3, LPC1768)

Embedded Systems: 8051, ARM Cortex-M3, LPC1768, Keil MicroVision, Sensor & Actuator Interfacing

EDUCATION

B.E. in Electronics and Communication Engineering

Jain College of Engineering and Research, Udhumbhag, Belagavi

Expected Graduation: 2027 | CGPA: 7.17

Relevant Coursework: VLSI Design, Digital Electronics, Circuit Theory, Embedded Systems, Microcontrollers, Signals and Systems, Communication Systems

MINI PROJECT

Grain ATM Using IoT (Embedded System) | Tools: Embedded microcontroller, IoT connectivity

- Built an automated grain-dispensing system using embedded hardware and IoT connectivity to enable remote monitoring and controlled distribution.
- Programmed the microcontroller logic in embedded C to manage dispensing operations and interface with IoT connectivity modules.
- Integrated sensor and actuator components on a custom circuit to automate the dispensing sequence with minimal manual intervention.

SOFT SKILLS & STRENGTHS

- Problem-Solving: Breaks down complex digital logic and system-level issues into manageable steps.
- Attention to Detail: Careful in verifying RTL designs, simulation results, and documentation.
- Self-Directed Learning: Picks up new tools and platforms independently.
- Collaboration: Works effectively in team-based project settings.

CERTIFICATIONS

DLithe – C Programming: Completed structured training in C programming fundamentals and problem-solving.

DLithe – Python Programming: Completed structured training in Python programming and scripting.

DLithe – IoT: Completed structured training in Internet of Things concepts and applications.

AREAS OF INTEREST

VLSI Design | Digital Logic Design | RTL Design | Embedded Systems | Circuit Design | MATLAB-Based Simulation