B. KARAN

CONTACT

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OBJECTIVE

My goal is to become associated with a company where I can utilize my skills and gain further experience while enhancing the company's productivity and reputation.

SKILLS

- PCB design using KiCAD
- Communication Skills
- Circuit Design and Simulation using LTspice
- Circuit design and Layout Simulation using Cadence
- Digital System Design using Verilog
- FPGA Implementation
- Interpersonal skills
- Physical Design Flow using OpenLane
- Analog Electronics
- Digital Electronics
- C programming
- IoT Security Concepts
- Cryptographic techniques

INTERESTS

- Designing and Simulating Circuits and Verifying the output
- Testing the circuits
- Soldering the components

LANGUAGE

- ✔ Kannada
- ✔ English
- ✔ Hindi
- ✔ German(Basic)

EDUCATION

NMAM Institute of Technology **2022-2026**
B. Tech in Electronics and Communication Engineering
9.49

Excel Pre University College **2020-2022**
PCMC
96.83%

Holy Redeemer English Medium School **2008-2020**
95.36%

PROJECTS

LED Flasher Circuit
An LED flasher circuit using the BC547B transistor can be built easily with minimal components.The blinking rate is controlled by the capacitors (C1, C2) and resistors (R3, R4).

Traffic Signal
Designed and implemented a functional traffic signal system using an astable multivibrator IC555 timer.

RTL to GDSII Physical Design of 32 bit Serial Multiplier
Implemented a 32 bit Serial Multiplier in Verilog and completed RTL to GDSII flow using OpenLane

RC Phase Shift Oscillator
Designed and Simulated a RC Phase Shift Oscillator in LT spice.

Differential Amplifier
Designed and Simulated Differential Amplifier in Virtuoso Cadence

Raspberry Pi 4 Model B
Currently working on designing of Raspberry Pi Board in KiCAD

4 Bit Ripple Carry Adder
Implemented a 4 Bit Ripple Carry Adder on Spartan 7 FPGA

Smart Parking System
Developed a Smart Parking System using ESP32 and IR sensors

Linux Kernel Module for Ultrasonic Sensor
Developed a Linux Kernel Module for Ultrasonic Sensor using Raspberry Pi 4 Model B.

Cryptographic techniques
Performed cryptographic techniques like CBC, ECB, ECDSA, ECDH using PSoC 6 and Optiga Trust X boards.

HOBBIES

Dancing, Traveling, Listening to Music, Watching movies, Reading books, Playing

CERTIFICATES

MATLAB Training Completion Certificate

Revolutionizing VLSI: Unveiling the Latest In System-On-Chip Design and Semiconductor Advancements.

Semiconductor Fabrication Course Certificate

INTERNSHIPS

VLSI Design and Verification
The program provided us with hands-on experience and practical knowledge in the field of VLSI with topics such as VHDL for RTL coding, FPGA design flow etc, which was crucial to our academic and professional development.