Ganapati Narayan Gouda

Trained Physical Design Fresher

Highly motivated and detail-oriented fresher with hands-on training in Physical Design, seeking to leverage academic knowledge and technical skills in VLSI design to contribute to high-performance chip design projects.

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EDUCATION

Takshila VLSI, Bengaluru JUNE 2024- Present
Course : Physical Design

Bangalore Institute of Technology, Bengaluru JAN 2022 - JUNE 2024
Course : Bachelor's in Electronics and Communication Engineering (ECE) CGPA : 8.3

Government polytechnic College, Siddapur JULY 2018- SEP 2021
Course : Diploma in Electronics and Communication Engineering (ECE) Percentage: 81%

Government High school, Lambapur JUNE 2016- APR 2018
Course : SSLC Percentage: 84%

INTERNSHIP EXPERIENCE

Takshila VLSI, Bengaluru JUNE 2024- Present
Graduate Trainee Engineer
Course helps to understand the complete physical design flow from specifications, floor planning challenges, power optimization, placement constraints, timing analysis, clock tree synthesis, routing and physical verification of a functional unit blocks.
Tool: ICC2

Cranes Varsity Pvt. Ltd, Bengaluru
Academic internship
Course focused on learning basic Verilog coding with several projects that provides understanding of digital circuits and design principles. Provides hands-on experience in writing and simulating Verilog code and improves problem-solving skills. Overall, the internship provided a solid foundation in digital design concepts.
Tool: XLINX Vivado

PROJECTS

SPI 2 I2C Conversation using verilog — Academic Project

This project focuses on designing a Verilog-based module to convert SPI to I2C communication, enabling seamless data exchange between devices using these protocols. The project includes SPI/I2C interface implementation, conversion logic with simulation and testing performed using XLINX Vivado software

Tool: XLINX Vivado.

Smart Helmet Using Arduino — Academic Project

Using the Arduino and sensors the smart helmet is designed that detect alcohol levels in the wearer’s breath, ensuring safety for users in high-risk environments. Additionally, it monitors the helmet's position, alerting users if it’s improperly worn or removed. This innovative design enhances safety for construction workers, motorcyclists, and other professionals.

Hardware Used: Arduino nano.

TECHNICAL SKILLS

- Physical Design
- Static Timing Analysis
- IC Compiler II - Synopsys
- Verilog
- Basic python programming
- MS word
- Basic MS excel