

BRIEF SUMMARY

Final-year Electronics and Communication Engineering student with hands-on experience in semiconductor fabrication and research. Seeking an opportunity to polish my skills in a challenging role within the semiconductor industry, aiming to contribute to technological advancements and innovation.

KEY EXPERTISE

Semiconductor Fabrication Semiconductor Process Technology PCB Design(KiCAD) Embedded Systems C++
Data Structures MATLAB Verilog MySQL Cadence LTSpice Front-End Web Development CAD

PROFESSIONAL EXPERIENCE

National Tsing Hua University | Semiconductor

22 Jul, 2024 - 02 Aug, 2024

Process Engineer Trainee

Key Skills: Semiconductor Fabrication Semiconductor Process Engineering Semiconductors

Completed specialized training in Semiconductor Fabrication Engineering at National Tsinghua University, Taiwan, gaining hands-on experience in advanced semiconductor manufacturing processes.

Department of MSME, IIT Hyderabad | Semiconductor

10 Jun, 2024 - 12 Jul, 2024

Process Engineer Trainee

Key Skills: Semiconductor Fabrication Semiconductor Process Technology Semiconductors

Completed a 4-week training at IIT Hyderabad to learn and understand Semiconductor Process Technologies.

EDUCATION

University Institute of Engineering and Technology

2021 - 2025

B.E. - Electronics & Communication Engineering | CGPA: 8.67 / 10

Maharishi Vidya Mandir, Fatehpur

2020

12th | CBSE | Percentage: 92.60 / 100

Noorul Huda English Medium School, Fatehpur

2018

10th | CBSE | Percentage: 84 / 100

PROJECTS

Simple Digital Calculator using MATLAB

Key Skills: MATLAB

Project Link: <https://github.com/vaibhavgupta03/Digital-Calculator-App-MATLAB>

Functional digital calculator app designed using MATLAB App Designer that supports basic arithmetic operations such as addition, subtraction, multiplication, division, and exponentiation provides users with a straightforward interface to perform calculations.

Automatic Vending Machine

Key Skills: Verilog State Machines Digital System Design

Project Link: <https://github.com/vaibhavgupta03/Automatic-Vending-Machine>

The vending machine accepts two types of inputs and provides the appropriate change or delivers the product based on the amount inserted.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Panjab University Campus Reporter - Engineering Section

01 Apr, 2023

Campus Magazine | Mentor: Dr. Neeraj Sharma

Key Skills: Research Technical Writing

Student editor for the engineering section of Panjab University's yearly Campus Reporter Magazine, conducting and sharing research on Green Computing under the guidance of Dr. Neeraj Sharma.

High Dielectric Metal gate Semiconductor Fabrication Technology

Research Presentation

Key Skills: Research Semiconductors Technical Writing

SEMINARS / TRAININGS / WORKSHOPS

Embedded System Institute Name: Design Innovation Centre, Panjab University

07 Jul, 2022 - 05 Aug, 2022

Key Skills: Embedded Systems Embedded C PCB Design

ACHIEVEMENTS

- o Achieved a GATE score of 489 with an All India Rank of 2344 in GATE EC 2024.

WEB LINKS

- o Github - <https://github.com/vaibhavgupta03>
- o Twitter - <https://x.com/vaibhavgupta090>