

Mani Chand A

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Education

Indian Institute of Technology, Bhubaneswar

B.Tech Electronics and Communication Engineering

Sri Chaitanya PU College, Karnataka

Pre-University Exam, PUE Board

GPA: 8.53

Aug. 2023 - present

Percentage: 85.1%

June 2021 - June 2023

Projects

3-Key Keypad

PCB Design

- Designed and developed a compact 3-key RGB keypad circuit using KiCad, suitable for microcontroller input.
- Designed a 2-layer PCB layout with optimized routing and minimal footprint for efficient fabrication. Simulated and validated the design to ensure signal integrity and debounce handling

Tools: KiCad, Schematic Capture, Circuit Simulation

Grocery Delivery

Web Development

- Developed Front End for a Web2 grocery delivery system connecting college students with local sellers.
- Built student and seller portals with inventory management, delivery slot selection, and personalized recommendations.

Tech Stack: HTML, CSS, JavaScript

Pong Game

Game Development

- Developed a classic **Pong game** using **Unity** and its **C# Scripting**, demonstrating proficiency in game development fundamentals.

- It Focuses on core gameplay loops, collision detection, and user interface elements.

Tech Stack: Unity, C#

Course Projects

Implementation of UART on a FPGA Board

Digital Electronics

- Implemented UART Communication protocol on a Xilinx Basys-3 FPGA Board.
- It was developed on Vivado design software using **Verilog** it can be used for both Receiving and transmission of data through wire.

Key Skills

- Programming Languages:** C, C++, C#, Python, HTML, CSS, JS, Verilog
- Tools:** Matlab, GitHub, Unity, Vivado, AutoCAD, KiCAD
- Framework/Libraries:** Numpy, ReactJS
- Soft Skills:** Communication, Team Work, Adaptability, Creativity

Position of Responsibility

Associate Member

(Oct 2023 - present)

Oracle, IIT Bhubaneswar

- Active member contributing to event management and outreach activities

Core Team Member

(October 2023 - December 2024)

E-Summit Fest, IIT Bhubaneswar

- Contributed to planning, organizing, and executing E-Summit events.

Extra-Curricular Activities

- Actively engaged as a member of the Oracle Journalism Club and participated in Robotics Club, contributing to various initiatives.
- Os! player, currently ranked among top 400k globally.