SK FARDIN MAHABOOB

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I am a Creative Digital designer with a solid understanding of analog device modelling and simulation. I am also a coding enthusiast with a keen interest in Software Development and Embedded Software Development..I have proficiency in C,C++,Matlab.

**Education**

**Jadavpur University, India**    **2020 - 2024**

Electronics & TeleCommunication Engineering | CGPA: **8.2**

* **Digital Electronics**
* **Signal and Systems**
* **Control Engineering**
* **Analog and Digital Communication**
* **Microprocessor**
* **Analog Electronics**
* **Computer Orgnization and Architecture**
* **Data structures and Algorithm**
* **Computer Programming and Numerical Method**
* **Communication Networks**
* **Cryptography and Network security**

**Sarisha RamaKrishna Misson Sikshamandir, India** **2017 - 2019**

* *WBCHSE (Class XII), Aggregate:86%*

**Sarisha RamaKrishna Misson Sikshamandir, India             2011 - 2017**

* *WBBSE (Class X), Aggregate:82%*

**Skills**

C++ | C | Matlab | Sivalco Tcad | Python | LTSpice | MultiSIM | Microprocessor | LINUX | Verilog |

JavaScript | React | NodeJS | MongoDB | MySQL | Git

**Projects**

MODELING A GAN DEVICE USING SIVALCO SOFTWARE **Nov’23-present**

***Project 1***

Utilized sivalco software to build and simulate device models, and generated band diagrams, device structures, electric charge density and electric field plots to analyze device characteristics and performance.

DIGITAL DESIGN **Jan’22-april’22**

*Using combinational and Sequential logic, I was able to construct several digital devices, ranging from multiplex adders to sophisticated circuits, as part of my Labs using MultiSIM Crack version.*

IC DESIGN **Jan’23-april’23**

Designed and implemented VLSI circuits like cmos inverter,npos,pmos using LTspice software.

ANALOG DESIGN **Aug’22-Nov’22**

Designed and simulated various electronic circuits using multiSIM, such as BJT amplifiers, voltage-controlled oscillators, 555 timers using OPAMP and multivibrators, demonstrating proficiency in analog electronics.

TIC TAC TOE GAME **Jan’23**

**Project 2**

Developed a **Tic-Tac-Toe game** using **HTML**, **CSS**, and **JavaScript**. Utilized event listeners and DOM manipulation to handle player interactions.

CURRENCY CONVERTER APP **Feb’23**

**Project 3**

Developed a **Currency Converter web application** using **HTML**, **CSS**, and **JavaScript**.Integrated real-time currency exchange rates via the **FETCH API** for accurate conversion

SOCIAL MEDIA APP*(Threads Clone)* **Jul’23**

**Project 4**

*Developed a thread clone social media app using* ***ReactJS****,* ***Node.js****,* ***MongoDB*** *and* ***Express****. Designed the UI using* ***Chakra UI*** *and created the frontend using ReactJS . Used Node.js and Express to create the backend of the app and MongoDB to store the data.*

Relevant Areas Of Interest

* DIGITAL DESIGN
* Embedded software Engineer
* SOFTWARE ENGINEERING

**Positions of Responsibility**

**Society / Club |**  **sep’22 - Present**

*As a member of the FinClub at our college, I participated in various activities that aimed to boost interest in finance on campus. I attended workshops, competitions, and professional opportunities, and helped organize events.*