EMARISHI KATARIA

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Education

Indira Gandhi Delhi Technical University For Women　　　　**Aug. 2021– July.2023**
M.Tech in VLSI Design - 7.285　　　　*New Delhi, Delhi*

Delhi Technical Campus (GGSIPU),G.Noida　　　　**Aug. 2017– July.2021**
B.Tech in Electrical and Electronics -8.19　　　　*Noida, UP*

Experience/Internship

3ST Technologies Pvt Ltd　　　　**Aug 2023 – Present(1.5 years)**
Design Verification Trainee　　　　*South Delhi, Delhi*

- Design Verification Trainee in 3ST worked on Verilog,SV,UVM,Digital electronics and STA

- Also,exposure to various protocols like UART,FIFO,AMBA APB

NIELIT,Noida　　　　**Aug 2024 – Oct 2024**
RTL to GDS Intern　　　　*Hybrid*

- Exposure to RTL to GDS-II qflow

- Worked on Various opensource tools like iverilog,openSTA,Yosys

- Hands on experience to open source tools,Basic Linux commands

Projects

AMBA APB | *Verilog*　　　　**Sept 2024**

- AMBA advanced microcontroller bus architecture APB Advanced Peripheral bus,

- The simulation results show that the data read from a particular memory location is same as the data written to the given memory location.

FIFO | *Verilog,SV*　　　　**Aug 2024**

- Read and write operation use different clock frequencies

- FIFO synchronize data flow between two systems working on different clocks.

UART(Universal Asynchronous Receiver Transmitter) | *Verilog, 3ST*　　　　**Sept 2023**

- Asynchronous data transfer protocol. (Implemented using Verilog)

- Various baud rate for synchronization

Washing Machine Controller | *M.Tech*　　　　**2023**

- washing machine controller using verilog ,various parameters using FSM ,Start Stop Rinse ,Wash

Technical Skills

Languages : Verilog, System Verilog, UVM, C++(OOPS), Linux(basic commands)
Tools: Questasim, EDA playground,Ubuntu,Synopsys VCS, Yosys, Iverilog, Xilinx Vivado,
Technologies/Frameworks: Linux

Publication

International Conference Analysis of optical and electronic properties of MoS2 and WSe2 using first principle
WREC,NIT Jalandhar