DANISH RANA

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EXPERIENCE

❖ **Cadence Design Systems (India), Noida | Product Validation Trainee** (Apr'25 – Jul '25)

- Working in AVS-Xcelium department, focusing on the creation of modular test banks using makefile targets and analyse testcases and submit comprehensive work on Perforce.
- Gained hands-on experience with Linux Bash scripting, GVim and Perforce commands.
- Utilized Cadence's Xcelium simulator for running simulations of digital designs.

❖ **VDT Pipeline Integrity Solutions, Noida | Electronics Embedded Intern** (Mar '25)

- Worked with Microchip PolarFire SoC FPGA using Microchip Libero SoC Design Suite software to store data from sensors and store it in memory unit.

SKILLS

Verilog	System Verilog	UVM (Universal Verification Methodology)
Bash Scripting	Makefile	Digital Electronics

SOFTWARES

AMD Xilinx Vivado Design Suite	Cadence Simvision Simulator	Ardino IDE
Microchip Libero SoC Design Suite	Perforce Version Control	Linux

ACADEMIC PROJECTS

❖ **Memory Controller** : UVM based testbench to drive commands like READ, Write, Activate and Precharge to simple DRAM DUT.

❖ **Traffic Light Controller** : System Verilog based project to design 4 way traffic lights.

❖ **Serial Communication Protocols [UART** (Universal Asynchronous Receiver/Transmitter), **SPI** (Serial Peripheral Interface) and **I2C** Protocol (Inter-Integrated Circuit)**]**

❖ **AMBA Protocols [APB** Protocol (Advanced Peripheral Bus), **AHB** Protocol (Advanced High-performance Bus)] and **AXI** Protocol (Advanced extensible Interface)**]**

#Note: All projects are done with design and testbench code in Systemverilog and UVM.

COURSES & CERTIFICATIONS

❖ Udemy: Verification Series Part 1: System Verilog Fundamentals
❖ Udemy: Verification Series Part 2: System Verilog Projects
❖ Udemy: Verification Series Part 3: UVM Fundamentals
❖ Udemy: Verification Series Part 4: UVM Projects
❖ Udemy: Verilog for an FPGA Engineer with Xilinx Vivado Design Suite.

EDUCATION

B.Tech (ECE) (2021-25)	KIET Group of Institutions Ghaziabad (AKTU)	7 CGPA
12TH (PCM) (2020-21)	K.D.B Public School, Ghaziabad (CBSE)	88.8%
10TH (2018-19)	K.D.B Public School, Ghaziabad (CBSE)	87.6%

HOBBIES

❖ Learning through various courses on platforms such as Udemy, YouTube, and LinkedIn Learning.