

# Gangapuram Varun Reddy

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## Skills

**Hardware Description Languages:** Verilog HDL

**Verification Languages:** System Verilog (SV), Universal Verification Methodology (UVM)

**Programming Languages:** C, Python

**EDA Tools:** Synopsys VNC, EDA Playground

## Professional Training

**Design Verification Trainee**

July 2025 - Present

**SumedhaIT, JNTU - Hyderabad**

- Underwent intensive professional training focused on the VLSI Design and Verification lifecycle.
- Developed expertise in Verilog HDL for writing Register Transfer Level (RTL) code for digital modules like RAM and FIFO.
- Mastered SystemVerilog (SV) for building robust verification environments, focusing on constrained random stimulus and functional coverage.
- Utilized Synopsys VCS for high-performance simulation and debugging of complex digital designs.
- Applied advanced verification techniques, including waveform analysis and directed testcases, to ensure data integrity and functional correctness.

## Education

**Maturi Venkata Subba Rao Engineering College**

B.E. in Electronics and Communication & Engineering

Dec 2021 - May 2025

**Percentage: 64.4%**

**Narayana Junior College**

Intermediate

Oct 2019 - May 2021

**Percentage: 89.4%**

## Projects

**Synchronous FIFO Design**

- Implemented a Synchronous FIFO in Verilog using read/write pointers and a memory array.
- Developed control logic for full and empty conditions.
- Designed synchronous read/write operations on a single clock.
- Verified data flow, boundary conditions, and pointer behavior through testbench simulations.

**Packet Decoder**

- Designed an RTL-based module to extract and process packets into header, payload, and CRC fields.
- Implemented logic for packet validation, payload routing, and output signaling.
- Ensured data integrity through CRC/parity checking.
- Verified functional behavior using waveform analysis and directed testcases.
- Performed advanced verification using SystemVerilog to ensure robust design performance and coverage.

## Awards and Certificates

- SumedhaIT:** DV Engineer Training Certificate.