**SUNKAVALLI VINAY KUMAR**

**PROFILE**

A joyful, upcoming Electronics and Communication engineer, looking for an entry-level position in growth oriented corporate environment preferably in the field of VLSI, Digital Electronics, Computer networks and related fields so as to gain knowledge and expertise to be utilized, shared and enriched for the improvement of the organisation.

**EDUCATION**

* **B.Tech Electronics and Communication Engineering CGPA – 8.27 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 100% **2019**

Institution: Sri Chaitanya Junior College

* **Class 10** – 97% **2017**

Institution: Sri Chaitanya

**TECHNICAL INTERESTS**

VLSI, Digital Electronics, Computer networks

**PROJECTS**

**Design and implementation of hamming code on FPGA using Verilog**  
·Duration/Period: 1 month  
·Objective: Hamming encoder and decoder for 32-bit message on BASYS-3 using ILA module·Tools or techniques used: Modelsim and vivado  
·Outcome: Successfully encoded and decoded message

**Polar decoder architecture**  
· Duration/Period: 6 months  
·Objective: Realizing polar decoder architecture for 5g communication and verifying it through hardware using PYNQ board and Basys board

·Tools or techniques used: ModelSim, Vivado , PYNQ board, Basys board

**Automated fans.**

·Duration/Period: 1 Month  
·Objective: To save the power, an automated fan has been designed such that speed of the fan varies based on temperature of room and number of fans running in a room depends on number of people inside room.·Tools or techniques used: Arduino IDE.

·Outcome: Fan speed has been regulated automatically based on room temperature and number of fans running increased when number of people inside a room increased

**TECHNICAL SKILLS**

C, Python, Verilog, FPGA implementation, Matlab, ModelSim, Vivado , HFSS, LT Spice, PYNQ FPGA board, Basys FPGA board

**INTERNSHIP**

**BHEL Hyderabad.**

·Duration/Period: From 20th June 2022 to 4th July 2022·Objective: To get familiarized with CNC and PLC.

·Outcome: Studied about CNC and PLC and their usage in industries.

**CERTIFICATIONS**

**CLAD Certification**   
·Area / Topic / Details: Labview software exam achieved 92.5/100 (92.5%) ·When & Where: 1st May 2021 on online platform.

**LANGUAGES**

Telugu , Hindi , English