



EDUCATION

- Vignan's Foundation for Science Technology and Research AP, India
2019 – 2023
B.Tech in Electronics and Communication Engineering; CGPA: 9.52/10.0
- Sri Chaitanya jr. College AP, India
2017 – 2019
MPC; CGPA: 9.88/10.0
- Sri Chaitanya Techno School AP, India
2017
SSC; GPA: 9.8/10.0

EXPERIENCE

- 5G Testbed R&D Lab, Indian Institute of Technology Hyderabad TS, India
July 2023 - present
RTL and SoC System Design Engineer
 - Implemented basic 5G NR Physical Layer (L1) Baseband hardware modules for the Synchronization Signal Block (SSB) channel.
 - Moderate-level C code developing for L1 and L1 Controller interactions on the PS, ensuring smooth hand-off and alignment with hardware requirements.
 - Worked with AXI bridges and interconnects between PS and PL, specifically in Intel FPGA.
 - Gained basic understanding of custom clock configurations for ADC and DAC systems and for FPGA clocks in Xilinx Zynq RF SoC and TI AFE platforms.
 - Able to review and follow user guides for soft-core IP's and configure them effectively.
 - Basic understanding of fixed-point implementation and signal processing techniques.
 - Jenkins, Docker -*integrating Jenkins with docker container agents for build & Automated Testing.*
 - Quartus Prime Pro -*compiling flow for Intel Agilex F-series, I-series, Hitek Boards with flashing using JTAG, Active Serial Modes with GUI, CLI.*
 - Make, Tcl, Python, Shell -*scripting, python wrappers for the compiling flow of EDA tools*
- Indian Institute of Technology Hyderabad TS, India
Aug 2022 - Jun 2023
Future Wireless Communications Intern
 - Digital Design, High level synthesis - *design of basic communication modules using Vivado, Vitis, MatLab.*
 - Communications, Signal processing, Random variables -*basics.*
 - *Configuring FPGA, ARM using Termux -on Vaman board.*
 - *Matrix Analysis in python, Optimization -using cvxpy, gradient ascent & descent.*
 - *Digital Design -using platformio, Arduino, IDF frameworks in Assembly, Avr-gcc level on Arduino board.*

ACADEMIC PROJECTS

- **Elderly Fall Detection and Location Tracing System:**
Guide: Dr.V.Vijaya Raghavan Duration: 4-Months
- **IoT Based Smart Governing System:**
Guide: Dr.N.Usha Rani Duration: 4-Months

VOLUNTEER EXPERIENCE

- IEEE Student Branch Secretary. -6 Months
- Class Representative -6 Months
- Student Coordinator -3 Days
-CIRH International Conference.

CERTIFICATIONS

- Problem Solving Through Programming in C, NPTEL
- Programming, Data Structures and Algorithms Using Python, NPTEL
- Programming For Everybody (Getting Started with Python), Coursera
- Programming In Java, NPTEL
- Business English Certificate Vantage
Overall score:159 CEFR Level: B1
- DevOps and Building Automation using Python, Coursera

AWARDS & HONORS

- **Merit Certificate:** Certificate of academic excellence (2020,2021)

EXTRA-CURRICULAR ACTIVITIES

- **Sports:** Volleyball, Badminton