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SUMMARY

Pursuing third year B-tech in a reputable organization is seeking for opportunities as an intern. With the personal abilities I possess, can assist with the implementation of innovative ideas, creativity and skills for this company. A collaborative team player with excellent problem-solving skills.

SKILLS

- Python
- Java
- LTSpice
- MATLAB
- ModelSim (Verilog HDL)
- MultiSim
- Keil uVision 5
- Rasberry Pi
- Arduino
- Cadence Virtuoso
- KiCad

EXPERIENCE

INTERN, 06/2024 - 07/2024
IISU ISRO, Trivandrum
- Introduced to microprocessor and FPGA-based embedded system design concepts, specifically for Launch Vehicle and Spacecraft applications.
- Gained familiarity with the communication protocol for transferring sensor coefficients from a test station to onboard memory, implemented using SPARC V8 assembly language on UT699 microprocessor hardware.
- Additionally, FSM-based VHDL code was developed, synthesized, and fused into the Smart Fusion2 FPGA to fulfill the same system requirements.

SENIOR CORE MEMBER, 08/2024 - Current
Team Prometheus
- Actively working on developing a soccer robot and its simulation for the RoboCup Small-Size Soccer League (SSL)
- Focusing on creating a fully functional robot that can autonomously participate in soccer matches. My role involves overseeing the design of custom PCBs, integrating sensors and actuators, and ensuring efficient power management.

CORE COMMITEE MEMBER
IEEE Signal Processing Society
- Actively participated to lead technical events and hackathons
- Collaborated with other club members to organise successful events.

INTERN, 10/2021 - 12/2021
Emerge Infotech, Trivandrum
- Participated in the program to gain experimental and practical knowledge about the Backend Language Python
- Understood the use of Python in artificial intelligence, web development, data science and creating software prototypes.

PROJECTS

RTL to GDSII (System on a Chip Design) - Explored the use of Verilog HDL software for synthetization of code into hardware circuits and also implemented a project collaborating with other students.

EDUCATION AND TRAINING

Vellore Institute of Technology, Vellore, 09/2024
B-tech: Electronics and Communication Engineering

ACCOMPLISHMENTS

- Web Application (01/2021 - 01/2022) - Developing a Web Application 'Local Zone' under the guidance of a developer, Bindu Benjamin; the application aims at increasing the sale of local market vendors by providing them a platform; view on https://localzone.fun/
- Young Scientists Competition - Created a model for a state level Young Scientists Competition organized by Adi Shankara Asianet News presenting futuristic projects on Efficient Smart Solar Generator
- Academic Excellence - Awarded as the Third Topper in Grade 10 at school

LANGUAGES

- ENGLISH, Native or Bilingual Proficiency
- TAMIL, Professional Working Proficiency
- MALAYALAM, Full Professional Proficiency

HOBBIES AND INTERESTS

- Reading
- Badminton
- Cooking