S Annamalai

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Education

Bachelor of Technology in Electronics and Communication — Expected: July 2024
Amrita School of Engineering, Bengaluru, India — *CGPA: 7.22/10.00*

12th CBSE — Apr 2020
Kendriya Vidyalaya ASC Centre South, Bengaluru, India — *CGPA: 84.0/10.00*

Skills

Programming Languages: Python, Embedded C, VHDL.
Operating Systems: Linux, Windows
Software: Multisim, Keil, Git, JupyterLab, Cadence, LTSPICE, Simulink, Arduino, Easy-EDA.
Hardware: Atmel 8051, FPGA- Spartan, STM32, PCB design, Arduino, Raspi, Lora, ESP8277

Work Experience

Apprenticeship –Decathlon Sports India (Whitefield)*:* **Omni Sport Leader** *Feb 2023 – Present*

- Provided exceptional customer service by sharing personal sports tips and experiences, and offering technical advice through comprehensive product training.
- Demonstrated a proactive approach in managing stock levels and pricing, and implemented effective merchandising strategies.

Research Student - *Amrita School of Engineering, Bengaluru* *Jan 2022 – Jan 2023*
title: **- Topology of Asymmetrical Cascaded Hybrid Bridge Multilevel Inverter**
title: **- Use of Magnetic Fields and Nanoparticles to Trigger Drug Release**

- The present paper study is to design a hybrid cascaded multilevel inverter, with a smaller number of switches and DC sources without using pulse width modulation technique, THD percentage is reduced by the model as compared to earlier studies.
- Design and Simulation of Chemical Drug Carrier with steering mechanism (Field Effect), To reduce the off target - Complications, perform Vivo Studies regarding the flow and accumulation of carrier synthesis.

Internship – *99bookscart:* **Web Developer Support** *Nov 2021 – Mar 2022*

- Collaborated with the team to design, structure, and implement new website interface from start to finish; updated existing Websites.
- Participated in weekly meetings with Team Managers, Being Supportive with Brainstorming Ideas for the creative team, Conducted Market Research and analysis on the domain and reported findings to the core team.

Project Intern – *NAL-CSIR:* **UAV Design Dept. (***UAV)* *May 2020 - Jun 2020*

- Implemented **MAV** with a focused Landing point Configured with parachute Decelerate Trajectory, with concise wind Field in the geolocation under guidance of Dr. Roshan Antony (Principal Scientist).
- Designed an intelligent independent decision-making control circuit based on the parachute excitation release.

CERTIFICATIONS

Cybersecurity Essentials – *Cisco Networking Academy* May 2021
Introduction to Cybersecurity- *Cisco Networking Academy* May 2021
Python for Everybody Specialization - *Coursera,* University of Michigan Sept 2021
Fundamentals of Digital Marketing – *Google, Digital Garage* Mar 2021

Positions of Responsibility

Senior Executive of IEEE Club, (Robotics and Automation Society) 2020-22
Electrical-Subsystem Member - Rover Team - Amrita 2022-23
Member of Amrita Robotics and Automation Club (ACROM) 2022-23
Volunteer: Action Hero (Black Noise Community) 2022-23
Volunteer: Self-Esteem supporter (Indian Cancer Society) 2022-23

Interests

- **Artificial Intelligence**
- **Robotics**
- **Embedded - Firmware**