

HARIHARAN J

ELECTRICAL AND ELECTRONICS ENGINEER

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ABOUT

A passionate engineer with a keen interest in programming, embedded systems, IoT, automation and electric vehicles. An artful person with good problem-solving skills, who is always learning new things and looking forward for new opportunities. A self-driven person with good technical skills and highly enthusiastic about new technologies and innovations in the field of electrical engineering.

EDUCATION

B.E (Electrical and Electronics Engineering), Kumaraguru College of Technology, Coimbatore. 2020 – 2024
CGPA – 9.49

Higher Secondary Education, C.P Vidya Mandir Matriculation Higher Secondary School, Kumbakonam. 2020
Percentage - 86.5

Senior Secondary Education, C.P Vidya Mandir Matriculation Higher Secondary School, Kumbakonam. 2018
Percentage - 93.4

PROJECTS

- **ABU ROBOCON 2023**

Electrical Team (Lead) - It is an International Techno sports event, where the teams build robots to do certain tasks to compete in the international grounds. This project honed my ability to manage time wisely, helped me to work consistently and strengthened my skills in fields of Embedded C, Power management and PCB designing.

- **DESIGNING A CONVERTER FOR BALANCING THE LITHIUM-ION CELLS IN THE BATTERY PACK**

In Lithium-ion battery packs, overcharging and heating issues have become a huge challenge. To prevent these issues, a converter is needed to balance and monitor the parameters of the Lithium-ion cells in the battery pack. This project developed my skills in the field of power electronics, automation, switches, designing of converters and batteries.

SKILLS

- Digital Electronics and Analog Electronics.
- C, C++ and Python language, MATLAB, PCB designing - KiCAD, Git, Atmel start, Arduino IDE, MPLABxIDE, PLC, Linux(beginner), Node MCU, HTML, Communication protocols (I2C, SPI, UART).

EXPERIENCES

- **INTERNSHIP AT BOSCH GLOBAL SOFTWARE TECHNOLOGIES PRIVATE LIMITED (2023)**

Learned about the basics of electronic control unit for infotainment system present in an Electric vehicle, their Testing, Development and Automation.

- **INTERNSHIP AT B/S/H HOUSEHOLD APPLIANCES PRIVATE LIMITED (2022)**

Hands on training on the manufacturing units and assembly line units of home appliances.

- **INPLANT TRAINING AT TANGEDCO (2022)** – North Chennai Thermal power station stage II, Chennai.

- **INPLANT TRAINING AT TANTRANSCO (2021)** – 230/110 KV Ayikudi Substation, Tirunelveli.

ACHIEVEMENTS AND PUBLICATIONS

- **BEST OUTGOING STUDENT OF THE DEPARTMENT** – Received from Kumaraguru college of Technology.

- **RUNNER IN FIT.KOVAI HACKATHON** – Organized by Bosch Global Software Technologies PVT. LTD (2023).

- **MAHATMA GANDHI SCHOLARSHIP AWARD** – Received three consecutive times from KCT (2021, 2022, 2023).

- Published Research papers on topics of **Biomechanically Sourced Hybrid Energy Harvester - Towards A Sustainable Environment, Revolutionizing the battery performance by an innovative approach to balance the cells** and **A novel Bi-Directional Converter for low voltage motor drives in electric Vehicles.**

ROLES AND POSITIONS

- **IQUBE (INNOVATIONS CENTER)** – Level III member, Embedded systems and IoT Domain (2021 – 2024).
- **ROBOTICS AND AUTOMATIONS CLUB** – Technical member, Artificial Intelligence Domain (2021 – 2022).