


AROCKIYA LIPSON

ELECTRONICS ENGINEER + SASTRA UNIVERSITY STUDENT

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SUMMARY OF QUALIFICATIONS

- Experience creating schematic and designing PCB in **Kicad** and **Altium** incorporating EMC/EMI consideration and using **datasheets**.
- Experience designing and maintaining libraries for components includes **symbol ,footprint and 3D model**.
- Proficient in communication with **PCB manufacturers ,component vendors** and **cross-functional teams** to address issues and identify improvement opportunities.
- Experience creating 3D diagrams with **FreeCAD**.
- Experience drafting technical documents using **Overleaf**.
- Exposed to programming languages such as **C/C++**.

EXPERIENCE

NoonRay Energy Pvt.Ltd. | Hardware Design Intern | Chengalpattu Jan 2024 - May 2024

- Designed 48V system Motor controller for **scroll Compressor** motor with **Ti** motor driver implementing EMC/EMI principles
- Programmed the micro-controller with Model Based design code generation using **MATLAB/Simulink**.
- Provided low-cost and quality Bill of Materials with quality vendors.
- Presented problems with solutions to design team.

NWarehouse Pvt.Ltd. | Hardware Design Intern | Thanjavur Apr 2021 - Apr 2023

- Contributed to the **pilot project** for identifying spoiled rice grain bag from unspoiled grain bag with gas sensors.
- Drafted manual for solving repeated technical errors and with "How to Start and Setup system" guide.
- Learnt the architecture of **MQTT** for transferring data to cloud from **IoT systems**.
- Learnt about designing and manufacturing of products based on DFM principles.

NON TECHNICAL ACTIVITIES

E-Cell(TECH-E) SASTRA | Member

- Organized "**Tech Trek Hackathon**" with the theme of transforming ideas into Startups. Including designing of pitch presentation with the required details.
- Created a syllabus for junior team to learn about **IoT** from the basics.

ASCIEE SASTRA | Member

- Organized workshop for training the student on the "**Basics of IoT**" with **ESP32 dev-kit**.

EDUCATION

SASTRA DEMEED UNIVERSITY

B.tech Electrical and Electronics engineering

Oct 2020 - Jun 2024