ELANGO M

Final Year B.E-ECE Student | Full Stack Java Enthusiast | Aspiring Innovator in Electronics, IoT and Embedded Systems | Beginner in PCB Design and VLSI

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Objective

To pursue challenging opportunities in the fields of Java application development, embedded systems, IoT, and automation, where I can apply my technical skills, creativity, and passion for innovation to contribute effectively to organizational growth while enhancing my career.

Education

Muthayammal Engineering College   **2022-2026 (Pursuing)**
Bachelor of Engineering (B.E.), Electronics and Communication Engineering   **Current CGPA:** 8.4

Model School Panamarathupatti   **2020-2022**
HSC (Maths, Physics, Chemistry, Computer Science, English & Tamil)   **Score:** 81.83%

The Gugai Higher Secondary School   **2015-2020**
SSLC   **Score:** 71.6%

Experience

Hardware Intern   **June – July 2025**
Salieabs Solutions LLP
PCB Design using KiCad, Eagle & DipTrace. Hardware Assembly and Testing, Custom dataset creation and training models using LabelImg & Yolo. Hands on working in Embedded firmware through site work.

Embedded Systems Intern   **June – July 2024**
Optimus Technology Pvt Ltd
Hands-on training in Embedded C, IoT sensors, and microcontrollers.

Projects

➤ Driver Drowsiness Monitoring System with Live Detection UI
➤ IoT-Based Air Quality Monitoring System using ESP8266 with Real-Time Web Dashboard
➤ Plants Leaf Disease Detection Using MATLAB
➤ IoT-Based Smart Medicine Dispenser
➤ 16-Bit Carry Skip Adder (RTL Design)
➤ Infrared Proximity Detection System
➤ Automatic Plant Irrigation System

Skills

Software: Arduino IDE, Proteus, LTspice, Xilinx Vivado, KiCad, Eagle, DipTrace, VS code.

Hardware: Arduino, ESP, Raspberry pi, Basys 3, Communication Protocols.

Programming Languages: Java, JDBC, HTML, CSS, JavaScript, C & Python (Intermediate), Verilog HDL(Beginner).

Tools, Frame Works & Database: My SQL, Spring Boot, LabelImg, YoloV8.

Others: Innovation and Design Thinking, Project Management, Technical Documentation, Presentation Skills, Teamwork and Leadership.

Language Known: Tamil, English.

Extra Curricular Activities

➢ Delivered multiple Student Tech Talks on topics such as Embedded Systems, BJT Amplifiers, Electroplating, and Cellular Concepts, etc…

➢ Participated in innovation and project contests from the first year onward, including: SPCon23IH01 – **Arduino-based Smart Irrigation System** (secured **5th place** and received a consolation **prize of ₹1000**) | SPCon25IH03 – **IoT-Based Smart Medicine Dispenser**

➢ Active participant in college symposiums, workshops, and seminars (both technical and non-technical)

➢ Represented the institution by participating in symposiums, workshops, and events at various external colleges

➢ Volunteered as an event coordinator for student fests and department-level functions

➢ Pursued self-initiated project work and obtained certifications beyond the academic curriculum

➢ Among those certifications, The **key certifications** are Fundamentals of Python, Arduino, Communication Skill, Effective speaking and communication skill, Matlab Onramp & More.

➢ Completed Skill India's **Electronics Hardware Assembly Operator** Course (NrCf Level 4) with **Grade B**.

➢ **Nptel Certification with Elite** : Innovation by Design, Fundamentals of Artificial Intelligence.

➢ **Nptel Certification with Elite+Gold** : Introduction to Internet of Things (Topper 1%)

Declaration

I hereby declare that the above mentioned details are true to the best of my knowledge.

Place : Rasipuram

Date :   **Elango M**