



# MUTHU MOHAMED KABIR

Electrical Engineer | Full Stack Developer

## PROFESSIONAL SUMMARY

Dynamic B.E. (EEE) graduate with a unique dual-competency in Core Engineering (HVAC, AutoCAD) and Advanced Software Development (Python, C#, IoT). Proven track record in building AI-driven solutions for Energy Efficiency and Smart Automation. Skilled in the full Software Development Life Cycle (SDLC). **Actively expanding technical capabilities by currently pursuing Node.js, Flask, and Flutter for full-stack and mobile solutions.** Seeking a challenging role in the Gulf region to leverage cross-functional expertise in Smart Building Technologies or IT Solutions.

## KEY PROJECTS

### Sign Language Recognition System

AI & Python

- Developed a real-time system using Python and Machine Learning to translate hand gestures into text/speech.
- Trained the model to assist communication for the hearing impaired with high accuracy.

### AI Chatbot for Energy Efficiency

Python & ML

- Built an intelligent chatbot to analyze building energy data and suggest optimization strategies.
- Applied AI logic to reduce energy wastage, aligning with sustainable building practices.

### IoT Smart Lock with Face Detection

Raspberry Pi & IoT

- Designed a biometric security system using Raspberry Pi and OpenCV.
- Programmed automated door control logic based on real-time facial recognition.

## CONTACT

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## EDUCATION

**B.E. Electrical & Electronics**  
PET Engineering College 2022 – 2026 | CGPA: 7.60

## HSC

L.K. Hr. Sec. School Completed 2022

## SKILLS

**Currently Pursuing**  
Node.js, Flutter, Flask

**Programming**  
Python, C#, C, C++, JavaScript

**Web Development**  
ReactJS, Django, HTML5, CSS3, REST API

**Embedded / IoT**  
Raspberry Pi, Arduino, ESP32, PCB Design

**Core Engineering**  
HVAC Design, AutoCAD, MATLAB / Simulink

## PERSONAL DETAILS

**Nationality:** Indian

**Marital Status:** Single

**Passport:** Valid & Ready

**Relocation:** Willing to relocate to GCC

## LANGUAGES

English (Professional)

Tamil (Native)

## SOFT SKILLS

Leadership

Problem Solving

Team Collaboration

Project Management

## 2D CNC Printer Prototype

Electronics & Embedded C

- Engineered a functional prototype for printing mini circuits, integrating electronics hardware with software control.

## EXPERIENCE

### HVAC Design Intern

Present

Bvisor

- Currently undergoing specialized training in HVAC system design, including heat load calculations and duct sizing.
- Gaining proficiency in interpreting architectural drawings and designing energy-efficient cooling solutions.

### Intern Trainee (Electrical)

2024

DCW Limited

- Gained hands-on experience in industrial electrical systems and maintenance workflows.
- Assisted senior engineers in routine inspections and power distribution analysis.

## CERTIFICATIONS & AWARDS

Artificial Intelligence

Energy Efficiency Building

PCB Design

Python & Django

Full Stack (React)

C# Programming

- 1st Prize:** Circuit Debugging (National Level Symposium).
- 3rd Prize:** Paper Presentation (National Level Symposium).
- 3rd Prize:** Technical Quiz (National Level Symposium).
- Leadership:** Team Leader for multiple college technical projects.