

## SOFIA AFSAR

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6893,LIG 2 TNHB, Ayapakkam, Chennai

### WORK EXPERIENCE

- **National Small Industries Corporation, Ekkatuthangal.**  
July 2022-Aug 2022.  
One month Summer Intern program where I Studied and did hands on experience in Embedded Systems.
- **Embedded Engineer Intern**  
**Place:**Astral Beat IITM Research Park.  
**Duration:**Feb 2023-July 2023  
**Skills:** Matlab, I2C protocol, Machine Learning(basics),Arduino, Signal Processing.  
Astral Beat is a health care startup, where my main role was to develop algorithms for vitals and write codes for communication between Arduino and sensor in the Arduino IDE.

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### EDUCATION

#### COLLEGE OF ENGINEERING GUINDY

B.E. Electronics and Communication Engineering

CGPA(Till 5thSem)-8.804

November 2020-present

#### VELAMMAL MATRICULATION HR.SEC SCHOOL

Higher Secondary (11<sup>th</sup> and 12<sup>th</sup>)

Higher Secondary Percentage: 96%

July 2018-March 2020

#### SBIOA MODEL MATRIC HR.SEC SCHOOL

Pre Primary-Secondary School

Secondary School percentage:95%

June 2006-March 2018

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**LANGUAGES KNOWN** Tamil, English, Hindi (Speaking Proficiency), French(basics)

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**SKILLS** **Programming Languages :** Matlab, Python, C,C++(basic), Verilog.

**Web Development :** HTML,CSS, JavaScript(Basics).

**Hard Ware and Simulation Tools:** PIC ,Arduino, Proteus, MPLAB IDE, Keil, LTSPICE.

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### PROJECT

- **Design of 8 bit Processor** – A Basic 8 bit processor was designed having control Unit,Memory and ALU units.
  - **Digital Voltmeter Design using PIC16F877A microcontroller**-Can measure the analog voltage applied as an input and display the voltage in digital format.
  - **Arduino-UNO based Fire Alert System using Flame Sensor**- It detects fire around the detection range and alerts people using a LCD display and buzzer.
  - **Automatic Street Lights based on Vehicle Movement using 8051 Micro Controller in Proteus**-It is designed using IR sensors to turn on and off the light based on vehicle movement.
  - **5V DC Power Supply Design** -A circuit is designed on a zero PCB board that can convert a 230 V AC supply to 5 V DC supply.
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## **LEADERSHIP AND RESPONSIBILITY**

### **Placement Representative**

ECE (Electronics and Communication Engineering ), Chennai, Tamil Nadu

July 2022-present

### **Design Core Member**

ECEA(Electronics and Communication Engineering Association) ,Chennai, Tamil Nadu

July 2023-Present.

### **Senior Correspondent**

The Guindy Times, Chennai, Tamil Nadu

August 2021-Present

### **Joint Secretary**

ECEA(Electronics and Communication Engineering Association) ,Chennai, Tamil Nadu

September 2021-June 2022

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## **COURSES TAKEN:**

- MicroProcessor and Micro Controllers
  - Introduction to Embedded Controllers
  - Computer Architecture(On going)
  - Digital Electronics
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## **ACHIEVEMENTS**

- **Rajya Puraskar** Award- **The Bharat Scouts and Guides**
- **Paper Presentation**- “Electric Vehicles and energy Trading Using Block Chain Technology”
- **NPTEL** -Python For Data Science Elite Scorer