





# AARON NISSI MYLABATHULA

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## OBJECTIVE:

Enthusiastic beginner in hardware development with basic experience using STM32, Arduino and Raspberry Pi. Passionate about learning electronics, building simple circuits, and exploring embedded systems. Eager to grow by working on real-world projects and learning from experienced teams and a thrill towards solving real world problems.

## EDUCATION:

### JAYA ENGINEERING COLLEGE, THIRUNINRAVUR, CHENNAI

Bachelor's Degree in Electronics and communication Engineering.

( 2023 - 2027 )

### KENDRIYA VIDYALAYA OCF, AVADI, CHENNAI

HSC - 12th Std (CSE) GRADE: 75%

( 2022 - 2023 )

### KENDRIYA VIDYALAYA OCF, AVADI, CHENNAI

SSLC - 10th Std GRADE: 95%

( 2019 - 2020 )

## PROFESSIONAL SKILLS:

**Programming Languages:** Python , HTML, Javascript , C, Embedded C,

**Hardware:** Arduino, ESP-32, STMbluepill, TMS320f28379d, MSP430

**Platforms:** Windows, Linux(Debian), MAC OS

**Tools:** Arduino IDE, Figma, CS2000WARE, CCS, AI/ML, STMcube IDE,

**Others:** ReactJS, Git, Github, TailwindCSS, JUPYTER NOTEBOOK, Hugging face.

## PROJECTS:

### CONTROL HANDLING AND SIGNAL ACQUISITION USING TMS320F28379D

- Built a real-time system using TMS320F28379D for signal acquisition and control handling.
- Used ADC, PWM, UART, and SPI for sensor communication and data transfer.
- Programmed in embedded C with CCS and implemented interrupt-driven control.

### AI-BASED WEATHER MONITORING SYSTEM WITH CHATBOT INTERFACE

- Developed an intelligent weather monitoring system using Raspberry Pi Pico, MPU6050, and MQ-02 for sensing temperature, motion, and gas concentrations.
- Integrated a personalized AI chatbot for user interaction and real-time weather updates via a web interface.
- Used GEMINI API for an Backend in accord with Hugging face and Jupyter Notebook to build and train the model.
- For the frontend I have used Streamlit and Python to design an minimalist Interface with 6 different API to get information.
- Used CSV format for storing sensor data, with backend database integration for historical data retrieval and analysis.

### PERSONAL PORTFOLIO WEBSITE

- A minimal and responsive portfolio built with HTML, CSS, and JavaScript to showcase personal projects and skills.
- Designed with a clean UI to highlight progress, experience, and technical expertise in a professional layout.
- Includes project previews, skill sections, and contact integration to support career development and networking.

## CERTIFICATES:

### TMS320F28379D DSP MICROCONTROLLER

Control handling and signal acquisition using TMS320F28379D - CVRDE - DRDO

(Feb to March- 2025)

### INTERNSHIP AT ION AEROSPACE

I worked for ION AEROSPACE as R&D (Intern) helping to develop drones for the Government of India and Defence.

(Jun to Sept- 2025)

## ADDITIONAL INFORMATION:

**Languages Known:** English, Hindi, Tamil, German

**Soft-skills:** Rapport Building, Team Management, Active Listening, Creative and Critical thinking

**Achievements:** Scouts (Rashtrapati), Kho-Kho (Nationals)