

# **Yan Naing Kyaw Tint**

Al & Robotics Engineer | Embedded Systems Developer | Python & STM32

**About Projects**  **Achievements** 

Skills

Contact

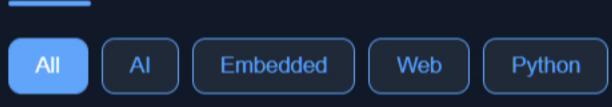
## **About Me**

I am a Mechatronics and Computer Science student passionate about Robotics, AI, and Automation. With hands-on experience in robotics, machine vision, and AI-driven solutions, I have developed projects ranging from humanoid robots to Al-powered waste sorting systems. I have represented Myanmar in the JENESYS 2024 ASEAN-Japan Conference, led my team to 1st place at HackAtom, and developed impactful solutions in international hackathons. My goal is to create intelligent systems that bridge the gap between humans and technology, fostering sustainable and interconnected communities.

INTJ-A | Resilient | Purpose-driven



# **Projects**



### **Color Dispensing Control Panel**

STM32 MySQL Tkinter

Python GUI with real-time STM32 hardware integration for pump-based color dispensing and inventory management.

GitHub

# **STM32 Water Dispense Controller**

Embedded STM32

Embedded C++ firmware for 9-pump STM32 system with real-time calibration, flash storage, and serial command interface.

**○** GitHub

## **WED Hackathon Project 2025**

Arduino Web

EcoHarvest is an innovative smart farming solution designed to empower small-scale farmers to adapt to climate change. By integrating mechatronics, web technologies, and sustainable design, we aim to address key agricultural challenges.

G GitHub

### Al for Everyone (Learning Journal)

Mediapipe OpenCV

Gesture and pose recognition projects using OpenCV, Python, and Mediapipe — based on Paul McWhorter's Al series.

**○** GitHub

# **Automated Garment Sorting System**

Arduino Robotics TCS3200

An automated garment sorting system using a robotic arm with color detection. The system identifies colored garments via TCS3200 color sensor, classifies them, and sorts into designated bins using a 5-DOF robotic arm.

GitHub

### **CS50 Python Course**

CS50 Python

Pure Python Core Concepts by CS50!

GitHub

Photo\_X Website CSS JavaScript HTML

Responsive photo gallery using HTML, CSS, Bootstrap, JS and jQuery.

Live Demo GitHub

#### CSS Bootstrap

**Simple Recipe Website** 

Responsive recipe website using HTML, CSS, Bootstrap, JS and jQuery.

Live Demo GitHub

### **Tindog**

CSS Bootstrap

Responsive dog dating website using HTML, CSS, Bootstrap, JS and jQuery.

Live Demo GitHub

#### Only\_Bootstrap\_Website HTML

Bootstrap

This Website is built by only using Bootstrap. I don't use CSS and JavaScript for this Website. I wanted to see what only bootstrap can do in creating Website.

☑ Live Demo GitHub

# **Admin Dashboard (Myanmar)**

Myanmar Bootstrap

Admin dashboard built with Bootstrap only. This is a Myanmar language website showcasing localization capabilities.

# Live Demo GitHub

Achievements



1st Prize – HackAtom 2024 (ROSATOM)

Developed atomic technology solution with ROSATOM See Certificate →

# **JENESYS 2024 Delegate to Japan**

February 2024

March 2024

Represented Myanmar in youth exchange program See Photos →



### **AAET Engineering Showcase** December 2023

Featured project demonstrating Al-powered automation See Project →



### **WED Engineering Day Hackathon** March 2025

Designed and prototyped a smart farming solution See Details →



#### **Myanmar 100-Year Engineering Hackathon** January 2025

Developed Al-powered robotic waste sorter with 92–95% accuracy

See Demo →



#### **Industrial Project – STM32 System** Ongoing Built and deployed full-scale industrial color dispensing solution

See Case Study →

# Skills

# Python (Advanced)

Languages

#### C/C++ (Embedded) HTML/CSS/JS

- SQL
- ▶ I2C/SPI/UART RTOS Concepts

# STM32 Development Arduino Programming

**Embedded Systems** 

#### PyTorch OpenCV

**AI & Computer Vision** 

TensorFlow Lite Mediapipe

# **Tools & Platforms**

- Git Version Control
- VS Code PlatformIO
- Figma Design

**Contact** 

🔛 Email

GitHub

- Let's connect and collaborate on innovative projects! in LinkedIn Twitter





