



# Yan Naing Kyaw Tint

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

<https://robinglory.github.io/Portfolio/>

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## 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 AI-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

- Download CV
- View CV

## Projects

- All
- AI
- Embedded
- Web
- Python

### Color Dispensing Control Panel

Python

STM32

MySQL

Tkinter

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

GitHub

### STM32 Water Dispense Controller

C++

STM32

Embedded

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

GitHub

### WED Hackathon Project 2025

IoT

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.

GitHub

### AI for Everyone (Learning Journal)

Python

OpenCV

Mediapipe

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

Python

CS50

Pure Python Core Concepts by CS50!

GitHub

### Photo\_X Website

HTML

CSS

JavaScript

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

Live Demo

GitHub

### Simple Recipe Website

HTML

CSS

Bootstrap

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

Live Demo

GitHub

### Tindog

HTML

CSS

Bootstrap

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

Live Demo

GitHub

### Only\_Bootstrap\_Website

Bootstrap

HTML

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)

Bootstrap

Myanmar

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

Live Demo

GitHub

## Achievements

### 1st Prize – HackAtom 2024 (ROSATOM)

March 2024

Developed atomic technology solution with ROSATOM

[See Certificate →](#)

### JENESYS 2024 Delegate to Japan

February 2024

Represented Myanmar in youth exchange program

[See Photos →](#)

### AAET Engineering Showcase

December 2023

Featured project demonstrating AI-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 AI-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

### Languages

▸ Python (Advanced)

▸ C/C++ (Embedded)

▸ HTML/CSS/JS

▸ SQL

### Embedded Systems

▸ STM32 Development

▸ Arduino Programming

▸ I2C/SPI/UART

▸ RTOS Concepts

### AI & Computer Vision

▸ PyTorch

▸ OpenCV

▸ TensorFlow Lite

▸ Mediapipe

### Tools & Platforms

▸ Git Version Control

▸ VS Code

▸ PlatformIO

▸ Figma Design

## Contact

Let's connect and collaborate on innovative projects!

Email

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