

Muhammad Guarddin

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EDUCATION

Taipei Municipal Yang Ming Senior High School

Expected graduate: June 2026

Taipei City, Taiwan (ROC)

Jakarta State 255 Junior High School

2020-2023

Jakarta, Indonesia

EXPERIENCE

Robofest

Lawrence Tech Volunteer

February 2025

Zhongli, Taiwan (ROC)

- Preparation of the competition arena by implementing a standard procedure.
- Assistant referee of the competition

PROJECTS

Arduino Boomerang Launcher

Arduino, Python

- A machine that launch boomerang using a rotating motor and controlled by Arduino.
- Built and programmed a robotic arm using 3v DC motor, interfaced via breadboard and controlled through Arduino
- Controllable rotation speed by adjusting the voltage.

Portable Adzan Caller

RaspberryPi 5, Python, tmux

- A device that could perform call to prayer(Adzan) from the mosques to muslims at home using Raspberry Pi.
- Integrated server from users to admin

Smart CPR

Micro:bit, Python

- A CPR device that helps a newbie to learn how to perform CPR in a correct way using Micro:bit.
- Built and programmed accelerometer.
- Programmed audio using Python to enhance CPR experience.

Awards

Awards: Gold medal in National Science Debate Competition 2025, Silver medal in National Science Debate Competition 2024, Excellent in Nationwide Senior High Schools Short Essay Competition, Excellent in Nationwide Senior High Schools Reading and Writing Competition, 1st Place in Code Olympiad 2023 Competition, Top 10th Best Project in Micro:bit Hackathon Challenge 2021

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, PHP

Frameworks and Tools: Next.js, GitHub

Creative Software: Blender 3D, Adobe Substance Painter, Sketchup, Clip Studio Paint, Canva, Davinci Resolve