

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

Taoyuan, 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(Azan) from the mosques to muslims at home using Raspberry Pi.
- Integrated server from users to admin
- Low latency connection between users

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

- 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