

# LIM XIN RU

## Post-SPM Internship

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**Address:** Bayan Lepas, Penang, Malaysia

**Languages:** English | Mandarin | Malay

Highly motivated Form 5 student with strong hands-on experience in robotics, programming, and game development. Proven leadership in national and international STEM competitions, with a passion for engineering, software development, and problem-solving.

## EDUCATION

2021-2025 SMJK Heng Ee Cawangan Bayan Baru

## TECHNICAL SKILLS

**Programming:** Python, Java, HTML/CSS/JavaScript, Scratch, Godot Engine

**Robotics:** FTC robot build & autonomous programming & encoder navigation path

**Design & Tools:** Onshape CAD, VS Code, GitHub, 3D Printer, Laser Cutter, Micro:bit, Canva

**GitHub:** <https://github.com/dreamtraveller1314>

## ACHIEVEMENTS

-FIRST Tech Challenge Malaysia 2024–2025 (Team Absolute Hack): Inspire Award (1st), Think Award (2nd), Innovate Award, Alliance Captain

-Represent Malaysia to First Championship 2025 in Texas, USA

-Represent Malaysia to Guangxi, China, 7th Belt and Road Maker Camp – Best Team

-Chinese Orchestra Student Conductor & Zhonghu Section Leader (2021–2025)

-School Prefect Board Unit Leader

-Best Co-Curricular Achievement Award 2025

## VOLUNTEERING

-Penang International Science Fair (PISF) 2023–2024 – Exhibitor & Volunteer

-Daydream Penang (International Teen Game Jam) – Co-organiser

-STEM outreach & booth demonstrations experience

## **SELECTED PROJECTS**

FIRST Tech Challenge Malaysia Championship (2024–2025) – Programming Sub-Team Leader

Developed autonomous routines achieving 63 points in 30 seconds.

Represented Malaysia at FIRST World Championship 2025 (Texas, USA).

Match Video:

[https://drive.google.com/file/d/1SuLN-XCtBMETRn\\_qsCHXv-fnzuAgq0RP/view](https://drive.google.com/file/d/1SuLN-XCtBMETRn_qsCHXv-fnzuAgq0RP/view)

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Castle of Shadows – Godot Engine (2025)

Solo-developed 2D pixel-art adventure game with mental health awareness theme.

<https://dreamtraveller1314.itch.io/castle-of-shadows>

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Custom Computer Mouse – Onshape CAD (2025)

Designed ergonomic mouse shell compatible with Bambu Lab Mouse Kit.

<https://cad.onshape.com/documents/89a440595dc51c5ae372007d>

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Snake and Ladder — Scratch Project (2021)

Created an interactive web-playable game. Integrated language learning elements for educational use

<https://scratch.mit.edu/projects/543620844/>