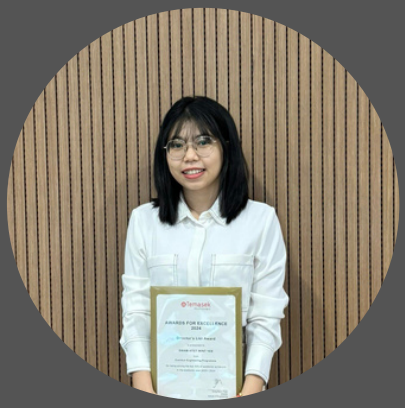

SWAM HTET WINT YEE

Computer Engineering diploma candidate focused on Embedded systems, IoT Integration, Applied AI, and System Testing.

CONTACT ME

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EDUCATION

Diploma in Computer Engineering

Temasek Polytechnic

2023-Current
(Graduating in May 2026)

SKILLS

Technical Skills

- Programming (Java, Python and C)
- Web Development (HTML, CSS and Java Script)
- Electronics and Microcontroller
- Data Visualization (KNIME & Tableau)
- Intelligent Automation (UiPath)
- Artificial Intelligence & Machine Learning
- Internet of Things

Soft Skills

- Problem-solving and Critical Thinking
- Team Collaboration
- Attention to Detail

AWARDS

School of Engineering Director's List Award (Temasek Polytechnic) 2024

PROFESSIONAL EXPERIENCE

Engineering Assistant Intern — Apr- Aug (2025)

OSIM Headquarters (Mechanical Technology Department)

- Converted massage program sheets into c-based firmware logic by translating sequences and constraints into structured control flow, improving implementation accuracy.
- Validated firmware updates through hands-on testing (timing, behavior, safety) and documented issues for engineering review, accelerating fix verification.

ACADEMIC PROJECTS

Smart Aqua Grow (IoT + AI pest detection system) 2025-2026

- Built a LoRa-based sensor pipeline that transmits and stores 4 sensor readings every 5 seconds via a gateway and database logging, enabling real-time dashboards and historical trend analysis.
- Trained and deployed a YOLO-based pest object detection model achieving 89% precision, then automated inference and annotated output generation to improve monitoring speed and detection consistency.

Integrated Circuit (IC) Tester Monitoring System 2025

- Engineered a temperature sensing and fan control subsystem by integrating sensor signal conditioning with driver logic and threshold-based alarms, improving cooling responsiveness during test cycles.
- Developed an **MQTT**-enabled HMI to display temperature, fan status, and alarm events in real time, improving fault visibility and shortening troubleshooting time.

Traffic Light System (Microcontroller) 2025

- Programmed a microcontroller finite-state machine to execute timed traffic light sequences with correct transitions and safety timing, validated through hardware testing and iterative tuning.
- Implemented clean modular logic for timing and state control to support scenario changes.

REFERENCES

Available upon request