# 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)

## TECHNICAL SKILLS

- **Programming**
  (Java, Python, C/C++, JavaScript and SQL)

- **Web Development**
  (HTML, CSS, Java Script and PHP)

- **Electronics and Microcontroller**

- **Data Visualization** (KNIME & Tableau)

- **Intelligent Automation** (UiPath)

- **Artificial Intelligence & Machine Learning**

- **Internet of Things**
  (Raspberry pi, MQTT, Grafana/InfluxDB )

## SOFT SKILLS

- Problem-solving and Critical Thinking

- Team Collaboration

- Attention to Detail

- Adaptability and Fast-Learning

## 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