

- Managed IT helpdesk operations, providing technical assistance to staff on hardware, software, and network issues.
- Performed system maintenance and troubleshooting to ensure seamless daily operations.
- Assisted in resolving both software configuration and hardware repair tasks.

## PROJECT HIGHLIGHTS

### Real-time Hand Posture Recognition Using STM32 AI Model Zoo and Time-Of-Flight Sensor (STM32 Microcontroller and Time-Of-Flight Sensor)

*Final Year Project | 2025*

- Developed a real time detection of 8 classes of gestures (Flat hand, Fist, Love, Like, Dislike, Cross Hand, Break Time, None) with the help of Time-of-flight sensor.

### License Sticker Expired Detection (YOLOv8)

*Computer Vision and Pattern Recognition Assignment | 2025*

- Trained and deployed image and date detection models for detect the expired date of the license car.

### Leaf Decease Detection (MATLAB)

*Digital Image Processing Assignment | 2025*

- Developed a MATLAB-based image processing system for leaf disease detection by filtering and segmenting healthy vs. affected areas.

### Portable Optical Based Turbidity Meter (Arduino)

*Integrated Design Project (IDP) | 2024*

- Developed a mini compact device using Arduino to measure and display turbidity of water samples in NTU for quality analysis.

### Smart Parking System (Arduino)

*SULAM Community Project | 2024*

- Built a prototype smart parking solution that monitors slot availability in real-time and displays empty spaces to reduce parking search time.

### Visitor Management System (JavaScript, MongoDB)

*Information Security Project | 2023*

### Food Delivery System (C++)

*Programming Assignment | 2022*

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## CERTIFICATIONS AND TRAINING

- TRIZ certification
- Introduction to MongoDB – Online Course
- Malaysian University English Test (MUET) – Band 4

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## SKILLS AND TOOLS

### Software Proficiency:

Python, C++, JavaScript, R, MATLAB, Git, Visual Studio, VS Code

### Control & Robotics:

Embedded Systems (STM32, Arduino),

### Platforms & Tools:

Linux, STM32CubeIDE, Keil uVision, MATLAB, Vivado, Wireshark

### Other Skills:

Microsoft Office Suite , Google Colab

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## CO-CURRICULAR ACTIVITIES & ACHIEVEMENTS

- Industrial Special Award from STMicroelectronics – INOTEK 2025 (Final Year Project)
  - Bronze – INOTEK 2025 (Final Year Project)
  - Bronze – INOTEK 2024 Festival (Integrated Design Project)
  - Volunteer – SULAM Program: Taught microcontroller & coding to secondary school students
  - Crew Member – Haunted House Event, FTKEKK Festival 2022
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## LANGUAGES

- **Bahasa Malaysia:** Fluent
  - **English:** Intermediate
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## REFERENCES

### TS. DR. SANI IRWAN BIN MD SALIM

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