

# Yasrizal Hakim Bin Yaresham

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## EDUCATION

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### UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTEM)

Bachelor of Computer Science (Software Development)

Major in Software Development

Cumulative CGPA: 3.57/4.0

Relevant Coursework: Software Engineering, Data Structures, Algorithms, Mobile Application Development, IoT Systems, Software Management, Database Management

Melaka, Malaysia

Expected 2026

### UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTEM)

Diploma in Computer and Electronic Engineering

CGPA: 3.5/4.0

Melaka, Malaysia

Jun 2019 - Jun 2023

## WORK EXPERIENCE

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### INARI AMERTON PLANT 13

Testing Engineer Intern

Penang, Malaysia

2022 - 2023

- Conducted daily testing, calibration, and basic maintenance on manufacturing machines to ensure 100% operational efficiency
- Collaborated with engineering team to troubleshoot technical issues, improving overall production efficiency by identifying and resolving equipment malfunctions
- Developed systematic testing procedures that reduced machine downtime and enhanced quality control processes

### SMK SERI HARTAMAS

Senior Assistant, Robotics Club

Kuala Lumpur, Malaysia

2017 - 2019

- Organized and managed weekly club sessions for 30+ students by coordinating electronic components inventory and supporting student project teams
- Represented school in 2018 NRC inter-school robotics competition, demonstrating leadership and technical problem-solving skills
- Mentored junior students in electronics fundamentals and programming concepts

## UNIVERSITY PROJECTS

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### SMART IoT SYSTEM For ENERGY OPTIMIZATION AND AUTOMATION (SISEOA)

2025

- Developed a cloud-connected IoT energy management system integrating web, mobile, and Raspberry Pi components for real-time monitoring and automated device control
- Delivered cross-platform deployment using React.js, Capacitor, and Firebase, enabling seamless web-mobile interaction and secure IoT communication
- Implemented energy analytics, cost calculation, and scheduling features for optimized energy usage based on TNB tariff data

### IoT ENERGY MONITORING SYSTEM

2024

- Developed comprehensive IoT system integrating web and mobile applications for real-time energy monitoring and control in 4-person team
- Implemented real-time data visualization and remote-control capabilities using React.js, Firebase, and Arduino
- Won 2nd Place in UTEM Workshop 2 Competition out of 50+ teams for innovative system design and effective project execution

### PARCEL MANAGEMENT SYSTEM

2023

- Developed a parcel tracking system for university parcel hub operations using C++ and MySQL
- Enabled students and staff to view real-time parcel status while improving tracking efficiency for parcel hub staff
- Designed and implemented database structures and user interfaces for secure, organized parcel management

## IoT GAS & FIRE DETECTION SYSTEM

2022

- Designed and implemented IoT-based safety system to detect gas, fire, and temperature using Proteus, Multisim, and Arduino IDE
- Created comprehensive circuit design and programming solution for real-time hazard detection
- Awarded Bronze Medal in INOTEK Competition for technical innovation and attention to safety protocols

## LEADERSHIP & ACTIVITIES

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### NRC INTER-SCHOOL COMPETITION

Kuala Lumpur, Malaysia

Team Representative

2018

- Competed in national robotics competition representing SMK Seri Hartamas
- Demonstrated advanced technical skills in robotics programming and mechanical design

### UTEM WORKSHOPS & COMPETITIONS

Melaka, Malaysia

Active Participant and Team Leader

2022 - 2023

- Guided a 4-member team through project planning, coordination, and development with strong teamwork and communication.
- Achieved multiple awards including Bronze (INOTEK) and 2nd Place (Workshop 2 Competition)

## ADDITIONAL

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**Technical Skills:** Hands-on experience with Java, JavaScript, Python, C, C#, C++, HTML/CSS, Android Development, Arduino Programming, ESP32, MySQL, PHP, Raspberry Pi.

**Development Tools:** Firebase, Capacitor, Android Studio, Arduino IDE, Multisim, Visual Studio Code, GitHub.

**Languages:** Fluent in English (MUET Band 4) and Malay

**Certifications & Achievements:** NRC Inter-school Competition Representative (2018), Bronze Medal - INOTEK Competition (2022), 2nd Place - UTEM Workshop 2 Competition (2023)