

# MUHAMMAD ASYRAAF BIN MOHAMAD ZAID

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## CAREER OBJECTIVE

Graduate with a BEng in Mechatronics and Robotics System Engineer from the University of Liverpool, equipped with hands-on experience supporting automation and robotics inspection projects in field environments. Strong foundation in control systems, sensors and actuators, electromechanical integration, and system troubleshooting. Experienced in supporting on-site deployment, technical coordination, and engineering documentation. Highly motivated to develop practical skills in industrial automation, robotics applications, and commissioning environments. Available to travel domestically and overseas at short notice; flexible to work when required for service support.

## EDUCATION

**Mechatronics and Robotic Systems BEng**  
*University Of Liverpool, United Kingdom*

2022 – 2024

**Diploma in Mechatronics Engineering**  
*Universiti Malaysia Perlis (UniMAP)*

2019 – 2022

## WORK EXPERIENCE

**Project Engineer | Beyond Horizon Technologies Sdn Bhd**

Mar 2025 – Present

- Provided on-site technical support for robotic inspection systems, including system setup, functional testing, and troubleshooting during deployment in the oil & gas, power, and utilities industries.
- Translate client objectives into technical execution plans, ensuring inspection scope, data integrity, and reporting requirements meet contractual and regulatory standards.
- Oversee on-site inspection activities, coordinating teams and resources to achieve safe, timely, and cost-effective project execution.
- Coordinated with engineering, operations, and data teams to consolidate inspection findings into actionable reports that support asset integrity and maintenance decisions.
- Prepared detailed service and projects reports, inspection findings, and technical documentation in accordance with client and internal compliance requirements.
- Drive continuous improvement by evaluating and refining inspection workflows and data acquisition techniques, improving reliability while minimizing human exposure to hazardous environments.

**Internship | Echo Broadband**

Jan 2022 – Apr 2022

- Supported telecommunications infrastructure planning by developing and revising fiber optic network layouts using Netwin software for client deployment projects.
- Assisted engineering teams in evaluating network routing, pole positioning, and power supply requirements to improve system stability and operational efficiency.
- Compiled, verified, and organized technical drawings and project documentation for submission to international clients, ensuring accuracy and compliance with project standards.

## LEADERSHIP & CO-CURRICULAR ACTIVITIES

**Photographer & Videographer Liverpool Malaysian Nights Crew**

2024

- Collaborated with a media team to capture and produce event photography and video content for the Liverpool Malaysian Nights programme.
- Assisted in editing and post-production of visual materials used for event promotion and social media outreach.

**Football Team Member Malaysian Games in the United Kingdom**

2022 – 2024

- Represented the University of Liverpool Malaysian Society in inter-university football tournaments across the UK.
- Contributed to team performance, including achieving championship victory at Leeds Malaysian Games 2024.

**Secretary National Youth Association**

2019 – 2021

- Coordinated student and youth-focused activities to enhance participation, organization, and community engagement.
- Managed administrative tasks, communications, and event coordination in support of association objectives.

## CERTIFICATIONS & TRAINING

### Smart Solar Photovoltaic Certification | Centre of Technologies Excellence, Kuching

2025

- Earned certification through an intensive programme focused on solar PV system design, installation practices, and performance optimisation, strengthening technical capability in renewable energy applications.

### Facility Management Course | CIDB Malaysia

2022

- Completed structured training covering facility operations, maintenance planning, and safety compliance for building and industrial environments.

## ACADEMIC PROJECTS

### Final Year Project Bachelor's – *Portable Signal Conditioning for a Piezoelectric Sensor*

2024

- Designed a portable signal conditioning circuit converting piezoelectric charge signals into stable voltage outputs using op-amp configurations.

### Second Year Project – *Automatic Ventilation Fan*

2023

- Developed an Arduino-based temperature-controlled ventilation system using DHT11 sensors for real-time monitoring and fan speed control.

### Final Year Project Diploma – *Motorcycle Rider Helmet Crash Detection Alarm*

2021

- Built a smart crash detection system using Arduino and integrated sensors to trigger automatic emergency alerts upon impact.

### Second Year Project – *Drain Rubbish Collector*

2020

- Co-designed an automated drain debris collection system using AutoCAD for mechanical design and Arduino for control to improve drainage efficiency.

## SKILLS

**Automation & Robotics:** Industrial Automation Fundamentals | Robotics system & application (academic & project-based) | Sensors, Actuators & Motors | System integration & functional testing |

**Control & Programming:** PLC Fundamentals (basic exposure) | Arduino-based control systems | Python & C++ (basic) |

**Electrical & Mechanical:** Electrical wiring diagrams & schematics (basic) | Mechanical components & system layout | Electromechanical assembly & troubleshooting |

**Engineering Tools:** AutoCAD | MATLAB | ROS (basic exposure) | Linux |

**Field & Engineering support:** On-site support & coordination | Technical documentation & reporting | Safety awareness & Compliance |

**Soft Skills:** Teamwork | Leadership | Time Management | Communication | Adaptability

**Languages:** Malay – Full Professional Proficiency, English – Professional Working Proficiency

## REFERENCES

References available upon request