

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

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| Mechatronics and Robotic Systems BEng <i>University Of Liverpool, United Kingdom</i> | 2022 – 2024 |
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| Diploma in Mechatronics Engineering <i>Universiti Malaysia Perlis (UniMAP)</i> | 2019 – 2022 |
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WORK EXPERIENCE

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| Project Engineer Beyond Horizon Technologies Sdn Bhd | Mar 2025 – Present |
| <ul style="list-style-type: none">• 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. | |

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| Internship Echo Broadband | Jan 2022 – Apr 2022 |
| <ul style="list-style-type: none">• 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

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| Photographer & Videographer <i>Liverpool Malaysian Nights Crew</i> | 2024 |
| <ul style="list-style-type: none">• 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 <i>Malaysian Games in the United Kingdom</i> | 2022 – 2024 |
| <ul style="list-style-type: none">• 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 <i>National Youth Association</i> | 2019 – 2021 |
| <ul style="list-style-type: none">• 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

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| Smart Solar Photovoltaic Certification Centre of Technologies Excellence, Kuching | 2025 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Completed structured training covering facility operations, maintenance planning, and safety compliance for building and industrial environments. | |

ACADEMIC PROJECTS

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| Final Year Project Bachelor's – <i>Portable Signal Conditioning for a Piezoelectric Sensor</i> | 2024 |
| <ul style="list-style-type: none">• Designed a portable signal conditioning circuit converting piezoelectric charge signals into stable voltage outputs using op-amp configurations. | |
| Second Year Project – <i>Automatic Ventilation Fan</i> | 2023 |
| <ul style="list-style-type: none">• Developed an Arduino-based temperature-controlled ventilation system using DHT11 sensors for real-time monitoring and fan speed control. | |
| Final Year Project Diploma – <i>Motorcycle Rider Helmet Crash Detection Alarm</i> | 2021 |
| <ul style="list-style-type: none">• Built a smart crash detection system using Arduino and integrated sensors to trigger automatic emergency alerts upon impact. | |
| Second Year Project – <i>Drain Rubbish Collector</i> | 2020 |
| <ul style="list-style-type: none">• 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