

MUHAMMAD FARIS BIN ROSLI

Computer Engineering Student | Software Development | Embedded & IoT Systems | AI/Data Analytics

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PROFESSIONAL PROFILE

Final-year Computer Engineering student at Universiti Malaysia Perlis (UniMAP) with a strong interest in building practical systems that connect software, embedded hardware, IoT, and data. Experienced in developing mobile/web applications, Firebase-backed workflows, AI/data analytics prototypes, dashboards, and embedded systems. Recognised with four Gold Awards across final-year project, healthcare innovation, and sustainable energy projects, with PETRONAS internship exposure supporting departmental digitalisation, reporting, communication, and event operations.

EDUCATION

Universiti Malaysia Perlis (UniMAP) - Bachelor of Computer Engineering with Honours | Sept 2023 - Expected July 2026

- CGPA 3.70; Current GPA 3.73; Dean's List for every semester.
- Final Year Project: Design and Evaluation of an On-Demand Laundry Service App with Tracking and Delivery Management.

Universiti Malaysia Perlis (UniMAP) - Diploma in Computer Engineering | Aug 2020 - Aug 2023

- CGPA 3.45; SPM 9A 2C.

AWARDS & RECOGNITION

- Gold Award - INVIDE, Final Year Project: LaundrOTrack.
- Gold Award - UPEX (Undergraduate Exhibition), Final Year Project: LaundrOTrack.
- Gold Award - IVIX, AI Smart Pill Box medication reminder and assistance system.
- Gold Award - Integrated Design Project Exhibition (IDPEX 2025), Traffic-Powered Street Lights: Converting Road Vibrations into Nighttime Illumination.
- Dean's List recognition awarded every semester.

INDUSTRIAL EXPERIENCE

PETRONAS Chemicals Ethylene Sdn. Bhd. - OEF Department, Internship Trainee | 28 July 2025 - 5 Oct 2025

- Supported OEF department operations through dashboard preparation, Excel tracking files, MS Forms, posters, event materials, and internal communication outputs.
- Assisted departmental data and survey activities by preparing a Power BI dashboard from PICA Survey data and supporting data-modelling improvements.
- Helped improve Coach Network Meeting tracking by enhancing Excel sheets with auto-numbering, freeze panes, status logic, and overdue indicators.
- Supported digitalisation tasks related to OutSystems and BOC 4Partners, including login restriction checks, form/database workflow preparation, and quick-win documentation.
- Contributed to EPIC 90 internal communication event as montage support, backstage technical support, mic/crowd support, and emcee support.
- Prepared departmental communication materials including event visuals, email content, forms, posters, announcements, and presentation support materials.

PETRONAS Chemical Ammonia Sdn. Bhd. - Industrial Exposure | Diploma Internship

- Gained workplace exposure to Power BI, Power Apps, Microsoft Excel, dashboard development, and business process digitalisation.

SELECTED PROJECTS

LaundrOTrack - On-Demand Laundry Service App with Tracking and Delivery Management | Final Year Project | Gold Award at INVIDE and UPEX

- Developed an integrated platform connecting Customer, Driver, and Administrator roles into one laundry service workflow.
- Built core user flows for registration, login, order placement, driver task acceptance, pickup workflow, return delivery, order history, and administrator monitoring.
- Implemented real-time delivery tracking features including live driver location, ETA/distance display, route navigation, push notifications, and admin order monitoring.
- Added advanced modules such as Laundra Ask chatbot, customer-admin chat, weather widget, analytics, order archive/unarchive, and admin order search/filter.

AI Smart Pill Box - Medication Reminder and Assistance System | Gold Award at IVIX

- Designed a medication support prototype with LED indicators, audio reminders, display guidance, and user interaction logic.
- Focused on improving medication adherence through clear reminders, simple instructions, and real-world assistance for users.

Traffic-Powered Street Lights: Converting Road Vibrations into Nighttime Illumination | IDPEX 2025 Gold Award

- Developed a sustainable street-light concept that converts road vibrations into nighttime illumination through piezoelectric energy harvesting.
- Integrated sensing, display, and dashboard monitoring features to observe energy output and environmental conditions.

ADDITIONAL ENGINEERING PROJECTS

Fire vs Smoke Detection System

- Developed a binary image-classification system using dataset preparation, model training, evaluation metrics, classification report, confusion matrix, and ROC curve.

Smart Dustbin Embedded System

- Built an automatic smart bin with object and fill-level detection, servo control, display output, and buzzer/LED alerts.

Alarm System for Culturing of Thermophilic Microbes

- Developed a monitoring and alert concept for microbial culture conditions using data acquisition and automation principles.

Traffic Light with Countdown Timer

- Designed a traffic-light control project using timing logic, microcontroller programming, and simulation tools.

Operating System and Linux Coursework

- Completed process-management and shared-memory programming tasks involving fork/wait concepts and producer workflow logic.

TECHNICAL SKILLS

Programming: Dart, Python, SQL, R, C/C++, HTML, CSS, JavaScript, Assembly Language, Verilog

Software, App and Cloud Development: Flutter, Firebase, Google Maps integration, Flask API, OutSystems, Power Apps, VS Code, Android Studio

AI, Machine Learning and Data Analytics: Power BI, Google Looker Studio, Microsoft Excel, SQL, R, TensorFlow/Keras, Scikit-learn, CNN, TF-IDF, Linear SVC, Google Colab, Anaconda/Spyder

Embedded Systems and IoT: ESP32, Arduino IDE, STC89C52RC, sensors, LCD/OLED/TFT displays, servo, buzzer/speaker, ThingsBoard, MQTT, Keil uVision, Proteus, NI LabVIEW

Design and Productivity: Microsoft Office, Canva, CapCut, technical diagrams, posters, presentation materials, documentation

SOFT SKILLS

- Team collaboration and cross-functional support
- Communication, presentation delivery, and confidence explaining technical ideas
- Problem solving, debugging mindset, and analytical thinking
- Time management, adaptability, attention to detail, and willingness to learn
- Technical documentation, event coordination, creativity, and leadership support

CERTIFICATIONS

- IBM SkillsBuild - Artificial Intelligence Fundamentals.
- IBM SkillsBuild - Web Development Fundamentals.
- IBM SkillsBuild - Project Management Fundamentals.
- IBM SkillsBuild - Natural Language Processing and Computer Vision.
- Cisco Networking Academy - Introduction to Modern AI.
- Cisco Networking Academy - Introduction to Cybersecurity.
- Cisco Networking Academy - Discovering Entrepreneurship.

EXHIBITION, COMMUNICATION & PRESENTATION EXPERIENCE

- Presented and demonstrated innovation projects during university exhibitions including final-year project showcases, healthcare innovation, and sustainable IoT systems.
- Produced communication materials, teaser montages, opening montage, posters, forms, and internal announcements during PETRONAS internship.
- Experienced in explaining technical projects to judges, lecturers, teammates, and non-technical audiences during showcases and presentations.