

# Muhammad Aliff Ashraff

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## WORK EXPERIENCES

### Telekom Malaysia

*Network Maintenance and Operation Executive*

**Rawang, Selangor**

*June 2021 – Present*

- Supervises end line distribution from exchange towers to customer premises, ensuring efficient and timely service delivery.
- Coordinates teams to address customer requests promptly, identifying issues before assigning tasks to the technicians in charge.
- Performs regular inspections and quality checks of work done by TM contractors at customer sites, ensuring adherence to standards and customer satisfaction.
- Conducts in-depth research on Optical Network Units (ONUs) to identify recurring issues, developing and implementing strategies to reduce failure rates and improve network reliability.
- Actively engages with customers to address their concerns and issues, enhancing overall customer experience and satisfaction.
- Monitors network performance metrics, identifying areas for improvement and implementing corrective actions to maintain optimal service levels.

### Coherent

*Test Engineer*

**Ipoh, Perak**

*November 2020 – May 2021*

- Managed Longwave Production Testers and performed preventive maintenance to ensure optimal performance and longevity.
- Led a testers relocation project, coordinating with cross-functional teams to complete the task efficiently and on schedule.
- Conducted detailed data processing and failure analysis, delivering weekly yield reports to production and management.
- Updated test plans for various testing processes, ensuring alignment with quality standards, and monitored Statistical Process Control (SPC) to maintain process integrity.
- Initiated and managed a project aimed at reducing product rejects by conducting experiments and analyzing data from new tester hotplates to identify and implement improvements.

### Mias Global

*Engineering Intern*

**Rawang, Selangor**

*June 2019 – August 2019*

- Took part in the wire trunking process for Press Automation Transfer Robots, ensuring efficient setup.
- Interpreted ladder logic diagrams to guide precise panel wiring for the control panels.
- Played a key role in disassembling and assembling sealant pumps during maintenance, following mechanical drawings to ensure precise and effective servicing.

## EDUCATION

### Universiti Putra Malaysia

*Master of Software Engineering (CGPA: 4.0)*

**Serdang, Selangor**

*September 2022 - Present*

- **Honors/Awards:** ICICSE 2023 Best Paper Award
- **Relevant Courses:** UX Design, Software, Software development methodologies, Software Testing, Web Engineering, Software Models, Artificial Intelligence

### Universiti Malaysia Pahang

*Bachelor of Electronics Engineering (CGPA: 3.72)*

**Pekan, Pahang**

*August 2016 – September 2020*

- **Honors/Awards:** Anugerah Konvokesyen Ijazah 2020, Dean's List Award for 7 semesters (2016 – 2020), Best Presenter for Integrated Engineering Design 2019, The Essence of Excellent 2017
- **Relevant Courses:** Computer Programming, Microcontroller, Microprocessor, Multimedia Technology, Communication System, Embedded Controller, Computer Vision

## RELEVANT PROJECTS

**X (Twitter) Clone** | *React.js, MongoDB, Node.js, Express, Tailwind, React Query, Cloudinary*

*July 2024*

App URL: <https://twitter-clone-l2ip.onrender.com>

- Developed full stack X web app that include post creation, deletion, commenting, liking, and following/unfollowing users.
- Secure user authentication (login and registration) with JSON Web Tokens (JWT).
- Able to edit profile information, including cover and profile images, with image uploads managed by Cloudinary.
- Utilized React Query for efficient data fetching and caching.
- Implemented real-time notifications for user activities.

**Food Delivery Web App** | *React.js, Node.js, Express, MongoDB, Stripe*

*May 2024*

Admin Panel URL: <https://food-delivery-admin-gexh.onrender.com>

App URL: <https://food-delivery-frontend-kht6.onrender.com>

- Developed a full-featured food ordering website using the MERN stack, including frontend, backend, and admin panel.
- Admin panel is for food item management, order status updates, and order tracking.
- Implemented JWT-based user authentication for secure login and registration.
- Developed shopping cart and checkout functionality with Stripe payment integration.
- Utilized Multer for image handling and ensured a responsive, user-friendly design.

### **Sport Facility Booking System | Figma, BASIC UX Framework**

Design URL: [sport-booking-system-prototype](#)

August 2023

- Conducted research in evaluating user experience of the prototype booking system that was designed using Figma.
- Improved user experience for UPM Sport Facilities and Equipment Booking System using the BASIC UX Framework.
- Applied Design Thinking Method to guide the project and ensure an intuitive design.
- Conducted UX testing with the BASIC UX Framework checklist and User Experience Questionnaire (UEQ).
- Won Best Paper Award for 6th International Conference on Interdisciplinary Computer Science and Engineering 2023.

### **Physical Intruder Detection System | IoT, Wi-Fi Fingerprinting, Sensor Fusion**

Ongoing

- Developing a multi-sensor intruder detection system to enhance the physical security of certain closed space by integrating Wi-Fi fingerprinting with several sensors (motion, infrared).
- Utilizing sensor fusion techniques (Bayesian rule, weighted fusion) to enhance detection accuracy and reduce false alarms.
- Implementing a real-time monitoring system to detect physical intrusions and generate alerts or automated responses.
- Evaluate system performance through experiments, to demonstrate the improvements over traditional single-sensor methods.

### **Amazon Clone | HTML, CSS, JavaScript**

March 2024

App URL: <https://amazon-clone-9m8m.onrender.com>

- Developed a frontend-only clone of Amazon using HTML, CSS, and JavaScript.
- Focused on creating a responsive and interactive user interface.
- Implemented features including product listings, search functionality, and shopping cart for managing and reviewing items.
- Order history feature to view past purchases and order tracking feature are included to give best user experience.

### **Pocketalk Landing Page | HTML, CSS**

February 2023

App URL: <https://pocketalk-landing-page.onrender.com>

- Developed a product landing page using only HTML and CSS, focusing solely on frontend design.
- Designed to showcase the Pocketalk product with a visually appealing and informative layout.
- Emphasized clean, responsive design to enhance user engagement and effectively present the product's features.

### **Control of a Two-Tank Liquid Level System | Figma, BASIC UX Framework**

August 2020

- Conducted research on controllers to manage liquid levels in a tank system by Using Integral Sliding Mode Control (ISMC).
- Designed control algorithms for Conventional SMC, Boundary Layer SMC, and ISMC.
- Evaluated ISMC performance in terms of chattering using MATLAB and Simulink.

### **Heat Detection System | C, Linux Ubuntu, Eclipse, ThingSpeak, BeagleBone Black**

August 2017

- Configured Ubuntu on BeagleBone Black (BBB) and established internet connectivity.
- Developed a heat detection system using BBB, including integration with GPS for location data and SMS for communication.
- Implemented data transfer to Thingspeak for real-time monitoring and analysis.
- Performed data collection and analysis with various sensors (temperature, humidity, audio, current.) and implemented signal conditioning and conversion techniques to ensure accurate readings.

## **CURRICULAR ACTIVITIES**

- Basketball Competition, Karnival Sukan Ansara 2023 (July 2023)
- Career Virtual Run (March 2019), Crazy Run 3.0 (October 2018) and Pahang Engineer's Run (April 2018)
- Member of Persatuan Seni Silat Cekak Malaysia (2018)
- Basketball Competition, Sukan Fakulti (March 2017)
- Tennis Competition (March 2016)
- National Oil Rig Competition (February 2014)

## **TECHNICAL SKILLS**

**Programming Languages:** JavaScript, HTML, CSS, C, MATLAB

**Frameworks/Libraries:** React, Node.js, Express, Tailwind CSS, React Query

**Database:** MongoDB

**Developer Tools:** VS Code, Git, GitHub, Figma

**Other Tools:** Microsoft Office (Word, Excel, PowerPoint), Canva, JMP, Proteus, Simulink, Arduino

## **REFEREES**

### **Dr. Mohd Hafeez Bin Osman**

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### **Muhammad Hafiz Bin Roslan**

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