

Rudaina Fahad Ali Al Farsi

Electronics and Telecommunication Engineering Graduate

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PROFESSIONAL SUMMARY

Electronics and Telecommunication Engineering graduate with a 3.75/4.00 CGPA and hands-on experience in electronic circuits, embedded systems, IoT, robotics, artificial intelligence, and laboratory operations. Proficient in Python, TensorFlow Lite, OpenCV, Orange Pi 4 Pro, Arduino, and ESP32. Completed industry training in circuit assembly, electronic soldering, basic troubleshooting, sensor integration, technical workshops, and engineering competition support. Seeking an entry-level opportunity as an Electronics Engineer, Telecommunications Engineer, Embedded Systems Engineer, IoT Engineer, or Graduate Trainee.

EDUCATION

Bachelor of Engineering (Honours) in Electronics and Telecommunication Engineering

Middle East College – Muscat, Oman | Sep 2021 – Jun 2026

CGPA: 3.75/4.00

PROFESSIONAL EXPERIENCE

Laboratory Assistant Trainee | Creative Vision LLC | Oman | Apr 2026 – Jul 2026

- Assembled and tested electronic circuits, components, sensors, and integrated electronic systems.
- Soldered electronic components, diagnosed basic faults, and resolved connectivity issues.
- Supported selected Arduino, ESP32, IoT, and robotics activities.
- Supported Sumo robot preparation and selected Line-Follower Robot activities.
- Supported robotics, IoT, and 3D-printing workshops for students and makerspace visitors.
- Created educational content and technical presentations supporting practical workshop activities.
- Operated 3D printers and designed promotional products using Silhouette Cameo.
- Organized Makerspace tools, electronic components, equipment, and technical project materials.
- Supported technical event preparation and engineering competition coordination activities.
- Supported Sumo robot preparation and qualifying-round organization activities.

Part-Time Sales and Customer Service Assistant | Al Falah Library | Barka, Oman | Jun 2025 – Jul 2026

- Assisted customers, answered enquiries, and recommended suitable products professionally.
- Processed cashier transactions and completed daily sales accurately and efficiently.
- Assisted customers in selecting books, stationery, and educational materials.
- Organised products, monitored availability, and supported inventory management activities.
- Received, verified, arranged, and stored incoming products while supporting daily operations.

AWARDS AND ACHIEVEMENTS

- Best Project Poster Award** | Department of Computing and Electronics Engineering, Middle East College | Spring 2026
- Certificate of Appreciation – Sumo Robot Challenge 2026 Qualifying Rounds** | UTAS Al Mussanah and Creative Vision LLC | 2026
- Undergraduate Research Grant – Principal Investigator** | Middle East College | 2024

CERTIFICATIONS

- Soldering Electrical Components** | Online Course | 2024
- Introduction to Emotional Intelligence** | Online Course | 2023
- Arduino Programming Certificate** | Middle East College | 2023
- Tahaddi First Challenge Programme** | Outward Bound Oman | 2018

SELECTED TECHNICAL PROJECTS

AI-Based Skin Cancer Detection Using Deep Learning and Dermoscopic Imaging

Bachelor Graduation Project | Middle East College | 2026

- Designed an academic embedded-AI prototype for preliminary skin lesion screening support.
- Classified skin lesions as benign or malignant using MobileNetV2.
- Preprocessed and augmented 7,211 dermoscopic images from the ISIC dataset.
- Converted the trained model into TensorFlow Lite for embedded deployment.
- Deployed offline inference on an Orange Pi 4 Pro platform.
- Integrated a high-resolution USB camera, 7-inch display, and PyQt5 interface.
- Connected Firebase with an Android application for real-time result monitoring.
- Achieved an embedded inference latency of 248 milliseconds on the Orange Pi 4 Pro.
- Evaluated system accuracy, reliability, power consumption, safety, and ethical considerations.
- Trained a CNN using TensorFlow and Keras, achieving 90.43% simulation accuracy and 89.92% hardware accuracy.

Artificial Intelligence-Based Smart Autonomous Segregation Robot (SASR) for Sustainable Waste Management | Principal Investigator | Undergraduate Research Grant | Middle East College | 2024

- Selected as Principal Investigator under the 2024 Undergraduate Research Grant scheme.
- Proposed an AI-enabled autonomous robot supporting sustainable waste segregation.
- Contributed to technical planning, concept development, and research documentation.

TECHNICAL SKILLS

- **Programming, Artificial Intelligence and Software:** Python | TensorFlow | Keras | TensorFlow Lite | OpenCV | NumPy | PyQt5 | Firebase | Arduino IDE | Thonny | MATLAB | Multisim | Tinkercad
- **Embedded Systems, IoT and Robotics:** Arduino Uno | ESP32 | Orange Pi 4 Pro | Raspberry Pi | HC-SR04 Sensors | Cameras | Motors | Motor Drivers | Sensor Integration | IoT Prototyping
- **Electronics, Instrumentation and Fabrication:** Circuit Design and Analysis | Analogue and Digital Circuits | Circuit Assembly and Testing | Electronic Soldering | Troubleshooting | Digital Multimeter | Oscilloscope | Function Generator | 3D Printing | Silhouette Cameo
- **Telecommunications and Productivity Tools:** Digital Communication | Signal Processing | Communication Systems | Telecommunications Networks | Antennas and Wave Propagation | Microsoft Word | Excel | PowerPoint | Outlook

PROFESSIONAL SKILLS

- Communication | Teamwork | Organisation and Planning | Problem-Solving | Analytical Thinking | Attention to Detail | Time Management | Technical Reporting | Adaptability | Multitasking | Independent Working | Continuous Learning | Deadline Management | HSE Compliance

PROFESSIONAL MEMBERSHIPS AND PARTICIPATION

- **Student Member** | Institute of Electrical and Electronics Engineers | Membership valid until Dec 2026
- **Participant** | 5th Middle East College International Conference on Advanced Data Analytics and Artificial Intelligence for Sustainable Smart Cities (ICADAI) | 2026
- **Volunteer** | MEC Hackathon 2025 – AI Shield: Building the Future of Cybersecurity | 2025

LANGUAGES

- **Arabic** | Native
- **English** | Intermediate