Omar Ahmed Kouta

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Personal Profile

My name is Omar Ahmed Kouta, and I am a recent graduate with a degree in Electrical and Electronic Engineering. I am actively seeking opportunities in both the software development and electrical engineering industries. I recently completed a comprehensive Software Development course with JUST-IT, where I gained hands-on experience in programming languages such as HTML, CSS, JavaScript, SQL, and Python. This course ignited my passion for creating websites and equipped me with the skills to design and implement functional, user-friendly solutions. With a strong foundation in PCB design and a commitment to continuous learning, I am eager to contribute to innovative projects in both fields. My dedication to acquiring and applying new skills has been a driving force throughout my academic and personal endeavors, and I am excited to bring value to a professional environment.

Key Skills

Coding Languages: HTML, CSS, JavaScript, SQL, Python, Embedded C, Assembly Language, MATLAB

Software: MATLAB, MP-LAB, Simulink, Multisim, Proteus, EasyEDA

Microsoft: Word, Excel, PowerPoint, Outlook, Teams

Personal Skills: Strong communication & social skills, Fast learner, Effective team player, Adaptable to new environments

Technical Skills: Adobe Illustrator Design, Soldering Circuit Boards.

Languages: Arabic (Native), English (Fluent)

EXPERIENCE

Resident Ambassador

Unite Students **March 2023 - Present, Coventry**

- Facilitated the orientation of new students, aiding them in acclimating to dormitory life.
- Played an active role in organizing and participating in diverse dorm events and activities
- Collaborated with Unite Students Staff to enhance and update dormitory policies and services
- Completed the "Look After Your Mate" workshop by Student Minds, earning a certification for participation.
- Designed event posters using Adobe Illustrator, enhancing promotional materials.
- Redesigned informational posters to improve navigation for new students.
- Collected and communicated student feedback to the team lead for continuous improvement of accommodation lifestyle and events.

Volunteer

Salvation Army **September 2024- Present, Coventry**

- Assisted as a cashier.
- Served customers.
- Sorted items, and uploaded them to an online platform by researching and comparing prices.

Volunteer

Anime & Gaming Con **September 2023 -September 2024, Sheffield**

- Provided assistance to visitors by guiding them to their intended destinations, offering support in locating necessary resources or information.
- Assisted in setting up and packing up older gaming systems.

EDUCATION

Bachelors in Electrical & Electronic Engineering

University of Coventry • United Kingdom

Foundation Year University of Sunderland

Sunderland • United Kingdom • 2021

IGCSE Certificate of Secondary Education

International Academy of Kuwait • Kuwait • 2019

CERTIFICATIONS

Look After Your Mate

Unite Students • 2024

- Enhanced my ability to effectively support and empathize with clients and colleagues experiencing difficulties or emotional distress.

JUST-IT Software Development Course

Just-IT • 2024

- Developed skills in HTML, CSS, JavaScript, SQL, and Python.
- Designed a personal website and created interactive projects and enhanced web functionality.
- Built and managed databases.

COURSEWORK

Graduation Project

- IoT system design - Microcontroller Programming (ESP8266) - Mobile App Integration (Blynk) - Energy Management and Optimization in IoT Systems - Sensor Integration and Data Visualization
- Successfully created a user-friendly, efficient, and secure home security system. The project demonstrated significant improvements in home safety, providing users with real-time alerts and the ability to monitor their homes remotely, thus ensuring peace of mind.

Control and Instrumentation 2

MATLAB - SIMULINK

- Implemented digital control using the z-transform methodology. Developed and assessed signal conditioning systems and evaluated smart measurement systems for improved data acquisition. Utilized MATLAB and SIMULINK for simulating continuous and discrete control systems. Employed Multisim for designing and simulating measurement and instrumentation systems.

Control and Instrumentation 1

Simulink & MATLAB & Multisim

- Designed and differentiated between open and closed loop systems, incorporating feed forward and feedback mechanisms. Used response data to establish performance measures and ensure adherence to specifications. Tested the PID controller within control systems, assessing its effectiveness. Used computer simulation, control system analysis and data acquisition tools, such as MATLAB/SIMULINK, for linear control systems.

Manufacture of Electronic Systems for Regulatory Compliance

Easy EDA - Proteus - PCB design

- Analyzed failures in electronic systems and components to identify failure modes and improve reliability. Designed PCB-based systems considering size, use environment, and regulatory requirements, ensuring compliance throughout the development process.

Electrical Engineering 1 & 2

Multisim - Transformer Design

- applied fundamental concepts and laws and techniques used in DC circuit analysis. Used computer aided simulation software to implement circuit models and simulate the response of simple electrical circuits Utilized analytical skills to evaluate the performance and response of RLC circuits under various conditions. Applied problem-solving techniques to assess and interpret the behavior of three-phase electrical systems. Employed modeling skills to create accurate representations of magnetic circuits for performance prediction in Multi sim.

Analogue Circuits & Embedded Systems

Programming in Assembly Language & Proteus software

- Designed a car park monitoring system that monitors the number of cars coming in and out of the car park Used Assembly language to program PIC 18 using the PIC-KIT to detect cars exiting and coming into the car park while also displaying the number of cars in the car park used Proteus to create a prototype of the system before implementing it in real life