

# LAITH ALFAR

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## EDUCATION

**BEng Hons Electronic & Computer Engineering**

| University of Nottingham • Sept 2020 – Jun 2023

- Achieved: Second Class, Division One.

## RELATED PROJECTS

**Android Bicycle routing Application**

| Bachelor's Thesis • Oct 2022 – Jun 2023

- Developed project using Dart after self-learning the language.
- Implementing Dijkstra's algorithm to find the shortest route using Dart.
- Authentication and photo storage using Firebase integration into a Flutter UI platform project.
- SQLite used as local database for data management.

**Speed Sensor Doppler Radar**

| Group Project • Sept 2021 – Jun 2022

- Construction of a prototype Doppler based speed detector to measure the speed of a car.
- Interfaced the comparator, LCD screen, 7 segment LED connection, and RS485 connection to the STM32L476G. (*VHDL, HAL library, STM32*)
- Demonstrated vital communication skills, organizational leadership, and resourcefulness.

**Cross-Platform Library**

| Group Project • Sept 2021 – Jun 2022

- Proficient in C++ for cross-platform application development. (*Bashfile and Qt*)
- Utilized VTK and Visual Studio for performing calculations on Tetrahedron 3D models using vectors. (*VTK, Visual Studios, C++*)
- Automated documentation and automated GitHub. (*Travis-CI, NSIS*)

**Line Following Bot**

| Individual Project • Sept 2020 – Jun 2021

- Implementing Arduino with IR sensors to create a line following bot. (*Enhanced circuit analysis, calibration, and control e.g PID, C*)
- Reimplementing the same steps using Raspberry Pi and OpenCV. (*Microcontroller coding, C, C++, OpenCV*)

**Software Skills:** MS Office | Matlab | LTspice | VHDL | Arduino | C/C++ | Qt | Blynk IoT | Android Studio  
Flutter | Dart | Firebase | SQLite | HAL Library | Bashfile | Travis-Ci | NSIS | JAVA

## EXPERIENCE

**Research & Development, UAE**

| Besomi Electronics Group • Jun 2022 – Sep 2022

- Electronic hardware repair (*Technical and Circuit analysis, Embedded systems*)
- Utilized FactoryIO to simulate battery storage units and gather data for client proposals. (*FactoryIO, Research, Project management*)
- Managed the project for a supermarket notification system. (*Esp8266, circuit analysis, C, Blynk*)
- Developed a Wi-Fi controlled robot for remote communication. (*Blynk, C, ESP32CAM*)

**Sales Employee, JO**

| Electronics Leaders • Oct 2020 – Aug 2021

- Managed database organization and coordinated with external contractors. (*Microsoft office, Networking, Customer-focused and commercially minded*)
- Developed expertise in electronics companies' dynamics through inventory control. (*Inventory Control*)

## VOLUNTEERING

**Jordanian Society**

| University of Nottingham • Sept 2021 – Jun 2022

- Promoted integration through cultural activities as part of a committee. (*Adaptability and networking*)

**Women as Partners in Progress**

| Cambridge High School • Feb 2019 – Apr 2021

- Raised awareness for women's rights through performances, reaching 5000 individuals.

**CHSMUN'19: A Sustainable Future**

| Cambridge High School • Sept 2019 – Dec 2019

- Managed The largest forum of students for the school's MUN. (*Leadership, Organization, Research, Networking*)
- Helped organize the event topics and setup the conference room.

**Amman Colour Festival**

| Individual • Aug 2017

- Volunteered in a rural area colour festival for physical well-being and tourism.