ELOISE GHUSOON GHANEM

Highly-motivated student with passion for electronics and robotics

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EXECUTIVE SUMMARY

I am a passionate electrical engineering student in my junior year, looking for an **electronics apprenticeship** in the Bournemouth area, that allows me to work on projects **related to renewable energies**, the **internet of things** or/and **electric mobility**.

I have more than **8 years experience** troubleshooting electronic devices and home appliances, as well as **installing electrical systems** in tiny houses, caravans, etc. My engineering studies have given me the confidence and structure to start **electrical projects** around the internet of things and green power like the ones I present below.

SOLAR MOTORHOME CONVERSION

This is the project I am most proud of. Along with a fellow electrical engineering student, we have acquired a 1981 Glendale 2000l Bedford Motorhome and we are working on re-doing the entire electrical system of the van, to turn it into an Off-grid solar powered motorhome. So far we have completed the layout and installation of electrical wiring, installed two third generation solar cell panels and a battery of 3840Wh. Our plans include adding the regular home appliances, including an AC with remote activation and an Arduino fingerprint Door Lock.

ELECTRICAL ENGINEERING SKILLS

Programmable Logic Controllers ●●●●○○
Planning and repairing wiring systems ●●●●●○
Installing and maintaining electrical systems ●●●●●○

PROGRAMMING AND IOT SKILLS

C++ ●●●●●○
Node.js ●●○○○○
Python ●●●●○○
Sensors installation ●●●●●○

REFERENCES

Elizabeth Dunn - Design & Tech. teacher @ Kings College
Contacts upon request
Corey Willis - St Joseph's School Christchurch
Contacts upon request

ACADEMIC BACKGROUND

ELECTRICAL/ELECTRONIC ENGINEERING LEVEL 3
Bournemouth & Poole College
BTEC/EDEXCEL Awarding Body
2022 - 2024 (Expected)

8 GCSES WITH AN AVERAGE GRADE OF 7 (78%)
Kings College, Bournemouth
Computer Science, Design and Technology, Physics, Maths, Chemistry and English
2017 - 2022

COMPLEMENTARY EDUCATION

Electric Mobility **- Brunel University** - 2021
Advanced Electrical Diagrams **- Brunel University** - 2021
An Introduction to Programming the Internet of Things (IOT) **- University of California Irvine - Coursera** - 2020
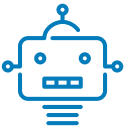Electrical systems repair guide **- Bournemouth & Poole College** - 2021
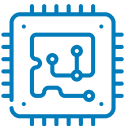Green energy components and systems **- Bournemouth & Poole College** - 2019

OTHER HIGHLIGHTED PROJECTS

As the final project for my GCSE computer science program, I designed and assembled a robot capable of avoiding obstacles and grabbing elements with a robotic arm programmed using a Raspberry Pi 3.

As a Christmas present for my parents, I designed and assembled a domestic dog food dispenser activated by a remote signal over the internet from any device.

VOLUNTEERING EXPERIENCES

SUMMER CAMP COUNSELOR St Joseph's School Christchurch
06/2021 - 07/2021

I was part of a team of 40 counselors working full-time during June and July tutoring more than 300 kids per week. The camp was specially challenging due to the COVID pandemic restrictions and protocols to ensure the kids safety. As a camp Counselor I:

· Planned fun activities for kids ages 9-14 including an intro to electrical diagrams and simple electrical systems.
· Supervised campers ensuring their growth and well-being
· Applied NHS COVID Safety plan for education institutions

Parents and kids loved the workshop I developed and requested to make it available in upcoming editions of the Summer Camp.