JONATHAN HANSEL **AWO**

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Profile

A proactive and results-driven engineering graduate with several internship experiences and a proven track record of delivering excellent project results. Experienced in a wide range of programming languages, frameworks, and modern industry standard technologies. Seeking an opportunity to contribute to a growing company whilst developing new and existing skills.

Experience

Engineering Intern 09/2020 to 12/2020
Qualcomm Technologies Limited Cambridge, Cambridgeshire
Worked in a Scrum team responsible for the automated firmware tests needed for the characterisation of Bluetooth microchips. My completed tasks and achievements from this internship are:

- Contributed to the code base using Python language to automate the firmware programming of the chips, and further optimising RF tests by reducing test duration and human intervention.
- Created unit tests with Python as part of test-driven development.
- Built a logging framework for the automated chip testing infrastructure. This framework saves logs to the local storage and sends the logs to a Linux database server from which they viewed remotely via a web browser. Technologies used are: Python, MongoDB, Flask, HTML, CSS, JavaScript, jQuery, Ajax.
- Carried out a production release for relevant teams to benefit from the newly added packages.

Software Developer Intern 06/2020 to 09/2020
J-Wadel Solutions Limited Bournemouth, Dorset, United Kingdom
Worked as part of a Scrum team in adding features to the company's legacy software and developing other software projects. Tasks include:

- Using React Native to building the user interface and functionality of a mobile app.
- Using Java for back-end development.

Hackathon Participant 11/2019 to 11/2019
Sir Williams Siemens Challenge Siemens PLC Sheffield, Yorkshire, United Kingdom
Worked in a team of 8 multidisciplinary members to build a contraption for the holographic visualisation of data streams from wireless sensors. My tasks involved the following:

- Creating an interface between the sensor nodes and the visual display section of the contraption by configuring and programming an Arduino microcontroller to receive sensor readings via an ESP8266 Wi-Fi chip, and control the colour and brightness level of LEDs on the display module.
- Designing and prototyping the electronics schematics.

Education

Master of Science (MSc): **The Internet of Things** 2021
Bournemouth University Bournemouth, United Kingdom
Studying a masters in the Internet of Things with focus on cloud computing, smart systems modelling, mobile and wireless networks, wireless sensors and actuators networks, and internet of things security.

Bachelors in Engineering (BEng): **Electronics and Computer Systems Engineering** 2018
The University of Huddersfield Huddersfield, United Kingdom
Studied Electronic and Computer Systems Engineering with a focus on embedded systems design, digital and analogue electronics, digital signal processing, parallel computer architecture clusters and grids, electronics design manufacture and testing, computer programming, and advanced mathematics.

Core Skills

- Python
- JavaScript
- C#
- C++
- Java
- HTML & CSS
- Android Development
- React and React Native Development
- Microcontroller programming
- Linux
- Unity Game Engine
- Database management (SQL and NOSQL)