

# BENJAMIN ANDERSON

+44 (0)7946 866 875  
thebenjaminjanderson@gmail.com  
39 Ivanhoe Road, SE5 8DH, London

engiebenji.com  
@engiebenji1999  
/benjaminjanderson

## Electronic Engineer

### PROJECTS

#### CUBE

A handheld device comprising of 6 OLED screens for each face on a cube. This project required design of circuits for battery management and voltage regulation, 3D modelling of the frame, as well as efficient C code to run 6 screens and a 6 DOF sensor off an ESP32.

KiCAD / FreeCAD / Git



#### Orthodox

A unique ortholinear keyboard. This project required custom designed keycaps to simplify the keyboard's aesthetic, as well as hall effect sensors for certain keys to allow for analog keypresses, a custom driver had to be written to allow for seamless integration of the keyboard with computers.

KiCAD / FreeCAD / OpenSCAD / Git



### EXPERIENCE

#### RF Test Engineer

Curvalux 2021-2022

- Developed driver for communicating with Keysight devices using pyVISA.
- Developed low level driver for a Beamformer IC.
- Developed a driver for controlling a heavy duty azimuth and elevation rotator.
- Automated radiation pattern measurements of antennas by combining my developed drivers.
- Learned how to professionally collaborate and document git repositories.

#### Research & Development Engineer

Huawei 2019-2020

- Developed a python library to communicate with a TEC controller over the serial protocol.
- Developed a standalone program to produce failure analysis reports, saving countless engineering hours.
- Presented weekly meetings to inform senior engineers of device failures and reliability.
- Analysing reliability of devices with PAM4 / NRZ inspection, shear testing, electroluminescence inspection.

#### Hardware Engineer

Avalon 2018-2019

- Tasked with designing and soldering the power management PCB.
- Had to regularly liaise with engineers from different disciplines to check compatibility.
- Manage my time effectively to balance my University work with Avalon work.

#### Design Project

Global Engineering Challenge 2018-2019

- Tasked with designing mobile retina scanners to diagnose diseases in Kibera.
- Designed a program capable of recognising diseases based on symptoms in people's retina.
- Developed library to communicate with signal analysers to automate testing.
- Pitched the idea in front of a crowd of 30+ people, receiving questions for 10 minutes.

### REFERENCES

Jason Hanson      Principal RF Engineer  
jason.hansonu@curvalux.co.uk  
+44 (0)7799 036 362

Xiaoli Chu      Ph.D Wireless Communications  
x.chu@sheffield.ac.uk  
+44 (0)1142 255 903

Lu Zhang      Senior Reliability Engineer  
luzhang1@huawei.com  
+44 (0)7881 255 334

### EDUCATION

Bachelor of Engineering  
Electronic Engineering:

University of Sheffield 2017-2021  
1st

A-Levels  
Mathematics  
Physics  
Computing

Dunraven 2015-2017  
B  
B  
B

GCSEs (11 Qualifications Passed)  
Mathematics  
Science  
English

Harris Academy 2010-2015  
A  
A  
B