BENJAMIN ANDERSON

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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 keyboards 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 all the necessary python libraries to automate radiation pattern measurements in a custom anechoic chamber.
- Translated proof of concept MATLAB code for phase tapering/beam steering a phased array antenna into working code on early prototype hardware.
- Professionally collaborated and documented git repositories.
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Research & Development Engineer — **Huawei** 2019-2020
- Developed a python library to communicate with a TEC controller over the serial protocol.
- Designed a standalone program with PyQt to automatically produce failure analysis reports from data gathered by lab technicians, saving countless engineering hours on a repetitive manual task.
- 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.
- Regularly liaised with engineers from different disciplines to check compatibility.
- Presented weekly meetings to inform senior engineers of device failures and reliability.
- Managed my time effectively to balance commitments to University and Avalon.

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.
- Pitched the idea in front of a crowd of 30+ people, receiving questions for 10 minutes.

REFERENCES

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

Xiaoli Chu — **Ph.D Wireless Communications**
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Lu Zhang — **Senior Reliability Engineer**
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EDUCATION

Bachelor of Engineering — **University of Sheffield** 2017-2021
Electronic Engineering: 1st

A-Levels — **Dunraven** 2015-2017

Mathematics	B
Physics	B
Computing	B

GCSEs (11 Qualifications Passed) — **Harris Academy** 2010-2015

Mathematics	A
Science	A
English	B