

# BENJAMIN ANDERSON

Electronic Engineer



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## 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 / Open Source / Git



### Orthodox

A ortholinear keyboard with some unique features, such as

KiCAD / FreeCAD



### LOREM

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KiCAD / Fusion360



## EXPERIENCE

### RF Test Engineer

Curvalux 2021-2022

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### 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/building the Power PCB.
- Have to regularly liaise with other engineers to check compatibility between engineering divisions.
- 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 our 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

### Bachelor of Engineering

Electronic Engineering:

University of Sheffield

1st

2017-2021

### Xiaoli Chu

Ph.D Wireless Communications

x.chu@sheffield.ac.uk  
+44 (0)1142 255 903

### A-Levels

Mathematics  
Physics  
Computing

Dunraven

B  
B  
B

2015-2017

### Lu Zhang

Senior Reliability Engineer

luzhang1@huawei.com  
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### GCSEs (11 Qualifications Passed)

Mathematics  
Science  
English

Harris Academy

A  
A  
B

2010-2015