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 managment 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.

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KiCAD / FreeCAD / Open Source / Git
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Orthodox

A ortholinear keyboard with some unique features, such as

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KiCAD / FreeCAD
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KiCAD / Fusion360
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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

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

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	