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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 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 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.

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.
- 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**
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Xiaoli Chu **Ph.D Wireless Communications**
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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