**CHARLES CURT**

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**Software, Electrical and Manufacturing Engineer**

* ***Quick Overview***

I can bring value to any team with a great passion and a deeply curious nature. I’ve worked as a manufacturing engineer, electrical engineer and now as a software engineer. I’ve also come to learn through experience that I have a great skill in observation, often overlooked, I can pinpoint tough problems which has on multiple occasions helped the team.

* ***Primary Skills***

*C Firmware, Electronics Design, Website Design (HTML CSS PHP Javascript), Physics, PCB Manufacturing, EE Test Equipment*

*Python, Linux*

* ***Education***

Bachelor of Science, Electrical Engineering, Florida Institute of Technology, Melbourne, FL 2017

* ***Experience***
* Software Engineer NeurostimOAB Jul 2018 – Oct 2018

• **Programmed IOT low energy BLE device on Qualcomm microprocessor**

• Automated software test design – created automated tests for software verification

• Low power design principles – Learned how to design low power software

• Hardware Testing – I found through testing a major bug which improved our design

• Documentation Design – Created doc control for all aspects of my design and **Git source control**

• Intro to **Altium** – helped engineers debug simple Altium issues

* Electrical Engineer Leaf Suit Mar 2018 – Jul 2018

• Designed startup’s electronics design – Involved motor, power supply, sensors and software

• Hardware and software testing – using EE test equipment verified operation of device

• Using **EagleCad**, created layout of project – designed single layer PCB for prototype

• Marketing, Research and Networking – learned how to target a market and talk to investors

* Researcher and Designer Optronics Laboratory May 2016 – May 2017

• **Published and lead a optics research project** into free space optical receiver

• Designed receiver and transmitter for laser communications

• Hardware testing with optical and EE equipment

• Research principles – this is what taught me to be very observant (ask me about this)

* Process engineer Mack Technologies June 2017 – Dec 2017

• Improved Wave soldering programs by reducing time and strain on board

• Found Underlying issues with inline wash and processes saving money and time

• Discovered circuit failure modes and facilitated improvements needed

• Trained and produced new procedures for operators

• Developed new factory layout using **AutoCad** from work flow analysis

* Test engineer Mack Technologies May 2017 – Jun 2017

• Programmed SPEA flying probe and **learned circuit and machine failure modes**

• Discovered failure of ICT test equipment, repaired ICT, programmed ICT

• Diagnosed and fixed test fixtures individually and with test engineers

• **Debug circuit analysis** individually and with senior debug team