

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