ndrew **Andrade**

github.com/mrandrewandrade cv.mrandrewandrade.com hackster.io/mrandrewandrade

Summary of Experience

- Extensive experience in manufacturing vendor management (ODMs, OEMs, CMs) and product validation.
- Worked on multiple manufacturing design challenges and proof of concept evaluations.
- Comprehensive rapid prototyping experience in benchtopping, machining, board creation, soldering etc.
- Passionate about new product development and product design (and required cost comparsion modeling).
- Strong communication and contract negotiation skills in procurement, manufacturing, testing & distribution.
- Analytical skills using statistics, data-mining, operations research for managerial economic evaluations.

Selected Professional Experience

Facebook Inc. — Manufacturing Engineering Intern

California, Prineville & China, Winter 2014

- Prototyped, tested, manufactured and deployed a custom designed test fixture, leading to a \$1.4 million hardware cost savings per factory and further reduced design by 8x after deploying in factories.
- Collaborated with American, European and Asian vendors to manufacture and assemble data center hardware.
- Lead quality and manufacturing of a new server line completing BOM revisions and manufacturing change orders.
- Prepared customer requirement documents and conducted assembly inspections at vendors & integrators.
- Drove quality issues and vendor rework management at Facebook's data centers around the world.
- Lead transportation testing including test monitoring, shake and vibration tests for new transporation systems.
- Audited factories in China from receiving, assembly, testing, QA, and packout/shipping areas.

Imtex Membranes Corp. — Mechanical Engineering Intern

Mississauga, Ontario, Winter 2012

- Integrated six sigma and lean methodologies (DMAIC and DFSS) for analytical engineering design and project feasibility.
- Designed and constructed bench scale apparatus and experiment setups in a manufacutring R&D environment.
- Collected and translated production trend data into improved standard operating procedure guidelines.

Chrysler — Manufacturing Summer Student

Brampton Assembly Plant, Summer 2011

• Diagnosed cost of poor quality issues by removing hidden factories, inherent waste and non-value added tasks.

All-Type Machine Shop — Mechanical Designer and CNC Programmer

Mississauga, Ontario, Summer 2010

• Designed machine tooling and plastics molds for automotive industry suppliers.

Cantech Tool and Machine Shop — Summer Machinist

Mississauga, Ontario, Summer 2009

Mostly swept the floors, filed and polished parts but eventually worked my way up to operating manual machines.

Selected Consulting Experience

Militia Everyday Carry Co. — Manufacturing and Industrial Design Consulting

Toronto, Summer 2014

• Lead new Titanium product line launch from industrial and product design to procurement (sourcing & manufacturing).

Peraso Semiconductor Technologies — Mechanical Manufacturing Lead,

Toronto, Fall 2013

- Industrial antenna product design, CAD modeling, customer specification drawings, manufacturing and validation.
- Built Peraso's supply chain from the ground up and created best practices, now used by company.
- Work lead to first product in the market antenna and was a major contributing factor to company raising \$8MM round.

Patent

Waveguide adapter plate to facilitate accurate alignment of sectioned waveguide channel in microwave antenna assembly M. Fakharzadeh, A. Andrade, S. Jafarlou, B. Lynch, and M. Tazlauanu Patent Pending

Education

Candidate for BASc in Mechatronics Engineering

University of Waterloo, 2011 – 2016 (expected)

• Option in Management Sciences, Focus: Operations Research, Supply Chain Management, Managerial Economics.

Tools and Technology

Design: Solidworks, Unigraphics NX, MasterCAM, AutoCAD, Matlab, Simulink, MultiSim, Cadence/Allegro Programming: C/C++, Python, R, Java, Tableau, Tibco, HTML5/CSS, SQL, Windows/Linux/Mac/Android Manufacturing PCBa, SMT, CNC/Manual Mill, Lathe, Surface Grinder, MIG/TIG/ARC Welding, 3D Printing, Soldering **Debug Tools:** Spectrum analyzer, Power meter, Oscilloscopes, Probes, Logic Analyzers, Microscopes, JTAG Testing: GD&T (automated caliper), Six Sigma (DMAIC), DOE, DFT/DFM, ISO 9000, AOI / AXI/ 5DX, ICT/ BFT/IST/SAT