

Andrew Andrade

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Executive Summary

- Extensive experience in vendor management (ODMs, OEMs, CMs) and product validation.
- Worked on multiple manufacturing design challenges from proof of concept to end of life.
- Passionate about new product development, product design, modeling & forecasting.
- Rapid prototyping skills (CAD modeling, CNC machining, benchtopping, soldering, welding etc.)
- Multiple award winner in artificial intelligence, computer vision, operations research & data science

Selected Experience

Militia Everyday Carry Co. | (Part-time) Design Consultant Toronto & Singapore May/14 - Nov/14

- Lead new Titanium product line launch from industrial design to procurement & manufacturing.

Facebook Inc. | Manufacturing Engineering Intern California, Oregon (USA), & China, Jan/14 - Apr/14

- Prototyped, tested, manufactured and deployed a custom designed test fixture, leading to a \$1.4 million hardware cost savings per factory and further reduced fixture cost by 8x after deploying in factories.
- Lead American, European and Asian vendors to manufacture/assemble data center hardware.
- Lead manufacturing of a new server line completing BOM revisions and DOE and gauge R&R.
- Drove quality issues and vendor rework management at Facebook's data centers around the world.
- Audited factories in China from receiving, assembly, testing, QA, and packout/shipping areas.

Peraso Semiconductor | Manufacturing Lead & Product Designer Toronto May/13 - Dec/13

- 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 & major contributing factor to company raising \$8MM round.

Intex Membranes Corp. | Mechanical Engineering Intern Toronto, Jan/12 - Apr/12

- Integrated 6 σ and lean methodologies (DMAIC and DFSS) for novel manufacturing setups.
- Lead materials procurement and economic ordering for new product line (\$600,000 budget)

Chrysler | Manufacturing Summer Student Toronto Jun/11 - Aug/11

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

All-Type Machine Shop | (Part time) CNC Programmer & Machinist Toronto Jun/09 - Aug/10

- Designed machine tooling and injection molds for automotive industry suppliers.

Relevant Publication and Patent

AutoBike | Self Driving Autonomous Vehicle funded by MIT (smart.mit.edu)

- Designed, built and [published](#) a self driving bicycle and platform using monocular computer vision
- Implemented a multi-heuristic A^* algorithm and conducted platform and system scalability simulations

Waveguide adapter plate to facilitate accurate alignment of channel in antenna assembly

M. Fakharzadeh, **A. Andrade**, S. Jafarlou, B. Lynch, and M. Tazlauanu

Patent Pending

Selected Education

Candidate for B.A.Sc. in Mechatronics Engineering | University of Waterloo 2011 - 2016

- **Management Sciences Option:** Focus in Operations Research, Data Analytics and Supply Chain Mgmt.
- **Selected Awards:** Canadian Intern of the Year, 3rd Best Master's Paper in AI, Highest Class Rank: 1