ALEJANDRO CLARK

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EDUCATION

Northeastern University, Boston, MA — *May 2018*

Bachelor of Science, Mechanical Engineering

PROFESSIONAL EXPERIENCE

Veloxint, Framingham, MA — *November 2018 – February 2020*

Mechanical Design Engineer

- Delivered an optimized milling solution, successfully resulting in a 5000% increase in product throughput while drastically reducing technician operation via automation.
- Designed, tested, analyzed, and modified CAD & CAE models to efficiently prototype new solutions for advancement of milling system production.
- Managed electrical discharge machining (EDM) for manufacture of fixtures and sample bars of proprietary metal alloy for mechanical testing.
- Created master documentation and PDM infrastructure for newly developed systems & sub-systems for ease of operation and safety.
- Collaborated in cross-functional teams and incorporated client feedback to better design safe products in a cost-efficient manner.

Desktop Metal, Burlington, MA — *July 2017 – December 2017*

Process Engineering Co-op/Assembly Technician

- Created MATLAB algorithm which identified causes for machine failure from machine room static noise by isolating unwanted resonant frequencies via fast Fourier transform.
- Designed, assembled, and enhanced mechanical & electrical components in state-of-the-art metal 3D printers, upgrading from legacy designs to newer, more efficient models.

Clockwork Analytics, Somerville, MA — *July 2016 – January 2017*

Building Technology Analyst Co-op

- Diagnosed effectiveness of HVAC equipment at industrial scales by analyzing results of thermodynamic processes and correcting data programming errors.
- Configured thousands of HVAC data points for automated analytics platform through Excel VBA.
- Interfaced with international clientele to onboard HVAC big data points into simple-to-read action items for quick & easy proactive maintenance.

Boston Scientific, Marlborough, MA — *July 2015 – December 2015*

Endoscopy Sustaining R&D Co-op

- Developed improved enteral feeding ports (food & drug delivery devices) through iterative design and physical property assessments, resulting in a deployed product used by millions daily.
- Produced and revised multiple official documents (SOP, WI, CR) for company-wide applications.
- Performed physical property assessments on product prototypes using Instron testing systems, custom machines, or self-made assemblies.