

Alexander Colatosti

Bachelor of Engineering - Mechatronics Student

Woodbridge, ON | 647-339-8287

[My Portfolio](#) | alex.colatosti@outlook.com | [My LinkedIn](#)

SKILLS

- SolidWorks, Project Development, PLC - MATLAB - Python - Microcontroller Programming, Engineering Drawings & B.O.M, Robotics Kinematics, Rapid Prototyping, 3D Printing, Pneumatic & Hydraulic System Design, Electric Circuit Design & Analysis, Microsoft Office.
- Teamwork, Leadership, Self-Starter, Creative, Problem Solver, Attention to Detail, Ambitious, Multi-Tasker, Hard Worker, Organized, Quick Learner, Analytical & Communication Skills.

EDUCATION

Mechatronic Engineering — Bachelor's Degree

Humber College 2021 – 2026

Lead a team of peers through our mechatronics project which entailed designing and manufacturing a fully automated assembly line to open and close a 2-inch cubed cardboard box. [Demonstration](#).

Mechanical Engineering — Advanced Diploma

George Brown College 2015 – 2018

Lead a team of peers through our capstone project which entailed communicating with our client to design and manufacture a fully functional adjustable spinal alignment cushion that can fit onto any existing seat. This project and others can be viewed in [My Portfolio](#).

WORK EXPERIENCE

General Machinist/Part Designer

Jetform Tooling Inc. — *December 2018 - September 2023*

- Responsible for designing custom parts and drawings within SolidWorks.
- Responsible for communicating with clients to learn about part specifications.
- Contribute to the design of various types of mechanical equipment and technologies.
- Responsible for applying various physics & mathematical principles to part design.
- Operates manual machines such as: lathe, milling machine, and grinders.
- Responsible for finishing parts on time and within 0.001" tolerances.
- Accustomed to working early mornings and long hours.
- Follows all safety regulations and expectations including personal protective equipment.

Freelance Product Developer

Self Employed — *May 2018 - September 2023*

- Communicating with clients to design the product they envision.
- 3D modelling with SolidWorks along with part/assembly drawings, and bill of materials.
- Performing part simulations and finite element analysis.
- Prototyping with FDM 3D printers, and other machining techniques.
- Accustomed to presenting engineering reports to clients in a professional manner.
- Responsible for managing all client materials within an organized database.