

Anthony Pasquariello

Mechatronics Engineer

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EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR OF APPLIED SCIENCE -
HONOURS MECHATRONICS
ENGINEERING (WITH DISTINCTION)
2017 | Waterloo, Ontario

SENECA COLLEGE

RECOGNITION OF ACHIEVEMENT IN
MECHANICAL DESIGN TOOLS:
SOLIDWORKS
2015 | Toronto, Ontario

RELEVANT PROJECTS

Environmental Sensor Network

- Developed a network of air quality sensors to detect harmful concentrations of gases and dust in urban areas.

Myo Controlled Robotic Arm

- Built a robotic arm and developed a program that allowed the user to control it using a Myo armband.

Search and Rescue Robot

- Lead mechanical designer in completing an autonomous search and rescue robot.

SKILLS

Software

- Autocad, Solidworks, NX
- Matlab and Simulink
- C/C++, RobotC, Python, and VBA
- PLC Ladder Logic
- Linux and ROS
- HTML, CSS, and Javascript
- Upverter, Eagle, and PSIM

Manufacturing

- Machine Shop (Milling Machine, Lathe, Drill Press, Bandsaw, Hand Tools)
- Soldering, Oscilloscopes, and Data Acquisition
- FDM, SLA, and SLS 3D Printing
- Material Selection and Part Sourcing
- Designing for low and high volume manufacturing

INTERESTS

Tinkering with Electronics, Swimming, Photography, Rock Climbing

EXPERIENCE

CELESTICA | PROCESS ENGINEER

January 2018 – Present | Toronto, ON

- Designed and implemented cost saving fixtures using innovative manufacturing processes and materials improving overall fixture quality and practicality.
- Spearheaded and oversaw the shipment of millions of dollars of assets and created organizational tools to help with asset transfers.
- Coordinated with suppliers to implement and troubleshoot new, intuitive, and defect reducing manufacturing processes.
- Developed several Excel macros using VBA automating simple tasks to increase productivity and efficiency on the manufacturing floor.

AECOM | AUTOMATION ENGINEERING INTERN

April 2016 – August 2016 | Markham, ON

- Using Autocad designed and created P&ID drawings for new mechanical and electrical systems in a waste water treatment plant.
- Retrofitted old AB PLC layouts with newer GE PLC in an operational water treatment plant improving reliability and efficiency of control system.

THALMIC LABS | MECHANICAL ENGINEERING INTERN

September 2015 – December 2015 | Kitchener, ON

- Researched, developed, and implemented new cost saving manufacturing practices resulting in an updated BOM.
- Designed and produced many high precision parts and fixtures using a 3D printer, CNC machine, and machine shop to rapidly prototype and validate designs.
- Worked writing the protocols for and executing the buildup of a new prototype.

CONAVI MEDICAL | MECHANICAL ENGINEERING INTERN

January 2015 – May 2015 | Toronto, ON

- Performed GD&T analysis on mechanical assemblies of a medical device and coordinated with the suppliers to resolve the root cause of defective parts.
- Used Solidworks to design complex mechanical parts applying a revision controlled process.
- Assisted in the regulatory submission process by writing and performing test cases to meet strict FDA industry standards.

PIVOTAL LABS | AGILE TEST ENGINEER

April 2014 – August 2014 | Toronto, ON

- Developed and implemented automated scripts in Ruby for testing mobile and web applications to accelerate efficiency of release candidate testing.
- Designed and executed test plans for numerous mobile and web applications ensuring clients received quality products.

MULTIMATIC INC | TEST ENGINEERING INTERN

January 2013 – April 2013 & September - December 2013 | Markham, ON

- Verified FEA predication with static and dynamic load testing and performed statistical analysis to determine the reliability of automotive parts.
- Analyzed data and provided recommendations after running tests on MTS actuators and an Instron tensile tester using Microsoft Excel.