

Anthony Pasquariello

Mechatronics Engineer
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EDUCATION

UNIVERSITY OF WATERLOO
BASC - HONOURS MECHATRONICS
ENGINEERING
2017 | Waterloo, ON

SENECA COLLEGE
RECOGNITION OF ACHIEVEMENT IN
MECHANICAL DESIGN TOOLS:
SOLIDWORKS
2015 | Toronto, ON

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, and NX
- Matlab and Simulink
- Python, C/C++, RobotC, and VBA
- SQL and Power BI
- PLC Ladder Logic
- FANUC teach pendant programming

Manufacturing

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

INTERESTS

Tinkering with electronics, swimming, photography, hockey, and currently learning to speak Italian

EXPERIENCE

WOODBIDGE | ADVANCED PROCESS ENGINEER
October 2018 – Present | Woodbridge, ON

- Designed, tested, and established lean manufacturing procedures for multiple robotic automation cells leading to a 50% reduction in labour costs and 35% reduction in material costs while improving cycle time and maintaining up-time.
- Initiated automated KPI collection from SQL database using python and displayed the data using a Power BI dashboard enabling more data driven decisions. The dashboard created is the template for all future Power BI dashboards in the company.
- Organized, participated, and helped secure \$100,000 in funding for automation and robotic training. Training was delivered to over 75 teammates internationally.
- Managed numerous roll-out projects ensuring they remained on schedule and presented project statuses to senior management.

CELESTICA | ENGINEERING ASSOCIATE
January 2018 – October 2018 | 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 improved cycle time and 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.