

Steven Maddison

Junior Consultant / Mechanical Engineering Graduate

Toronto, ON
(416)-859-3299
stevenmaddison@outlook.com

Organized and driven graduate from Queen's University with significant experience in quality control, qualification, and recommissioning. Professional experience includes two years working as a Validation and Compliance consultant in the Pharmaceutical, Cannabis, and Medical Device Industries.

Education **B.A.Sc. in Mechanical Engineering** **September 2014 – June 2019**
Queen's University

Experience **Junior Consultant** **August 2019 – Present**
Brevitas Consulting Inc.

Mechanical Engineering Intern **April 2017 – May 2018**
PnuVax Inc. Biopharmaceuticals

- **Recommissioned** facility utilities including clean steam, waste decontamination
- **Tracked** and **Managed** facility equipment using CMMS software (fiix)
- **Troubleshoot** utility equipment malfunctions including clean steam generator
- **Developed, Verified, and Referenced** SOPs and P&IDs
- **Created** documents for the recommissioning and installation/operation qualification of utilities
- **Interpreted** ladder logic PLC code to understand equipment function

Intern **June 2016 – September 2016**
Chess'n Math Association

- **Supervised** and **Tracked** the progress of 3 other interns during a 3-week supervisor absence
- **Designed** and **Implemented** a new inventory system using Microsoft Excel
- **Launched** and **Maintained** an online vending service through eBay

Projects **Reduce the Energy Cost of Walking** **September 2018 – April 2019**
Recipient of the George Christie Design Award First Place

- **Designed, Prototyped, and Tested** a soft, passive exoskeleton to reduce the energy cost of walking
- **Predicted** a theoretical energy reduction of 5% based on MATLAB modelling
- **Achieved** an energy reduction of 1.4% during biomechanical testing

Machine Design **January 2017 – April 2017**

- **Designed** a gearbox that optimized speed and towing power for a given load
- **Modelled** the gears, shafts, and gearbox using Siemens NX CAD program
- **Printed** the assembly parts using machine shop 3D printer

Skills **General** Time Management, Organization, Technical Documentation

Software MS Office, MATLAB, Solid Edge, Siemens NX, CSS, html, Basic Python

Project Management FMEA, QFD, Basecamp 3, Asana, fiix