Michael U. Thamm

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Profile of Skills

- **ANSYS Electronics Desktop [Advanced]** - uWinloop, SpaceX Pod Competition
- **AutoCAD [Advanced]** - Brave Control Solutions Co-op | Valiant Machine & Tool Inc. Co-op
- **Fusion360 [Beginner]** - uWinloop SpaceX Pod Competition
- **Siemens TIA Portal [Intermediate]** - Brave Control Solutions Co-op
- **Rockwell RSLogix [Intermediate]** - Valiant Machine & Tool Inc. Co-op
- **Programming Languages:** Python [Adv], JavaScript [Inter], MATLAB[Adv]
- Experienced with high voltage (20kV range) electrical assembly and large-scale power tools
- Native oral and written proficiency in English and German

Education

MASc - Electrical Engineering, CHARGE Labs 2019 - Present
University of Windsor, Windsor, ON

Bachelor of Applied Science, Honours Electrical Engineering Co-op 2015 - 2019
University of Windsor, Windsor, ON

Career Related Experience

Propulsion Team Lead Oct 2017 - Present
SpaceX - The Hyperloop Pod Competition
- Leading a team of multi-disciplinary students to design and build a linear induction motor
- Meeting with SpaceX engineers for design and safety reviews
- Wrote 2,000-line Python optimization algorithm to design flexible electric motor parameters
- Designing with ANSYS Electronics Desktop for motor simulation FEA

Controls Specialist Jan 2018 - Present
Brave Control Solutions., Windsor, ON
- Developed a JavaScript code conversion from Square D SY/MAX to Siemens Step 7 PLC
- Executed AutoCAD design for electrical and mechanical prints
- Debugged Siemens TIA Portal code for a Tetris machine build

Controls Design May - Aug 2017
Valiant Machine & Tool Inc., Windsor, ON
- Created floor layout prints utilizing AutoCAD software
- Re-produced PLC code on RSLogix5000 for kit packages
- Filled out BOM and Digital Papers for company projects

Electrical Assembly Worker June - Sept 2016
EnerQuest., Harrow, ON
- Assembled high voltage bussing and circuitry
- Use of engineering drawing and blueprints
- Prepared, adjusted and installed steel frame work
- Extensive use of power tools and hand held tools

References Available Upon Request