

Michael U. Thamm

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Education

- Since 08/2019 **Ma.Sc. - Electrical & Computer Engineering**
Thesis Title: Hybrid Magnetic Field Model Performance Optimization for Linear Induction Motors
Charge Labs - University of Windsor, Canada
- 08/2015 - 08/2019 **Ba.Sc. - Electrical & Computer Engineering, Minor in Mathematics**
University of Windsor, Canada

Related Experience

- Since 08/2019 **Ma.Sc. Thesis, *University of Windsor, Canada***
- Multi-objective genetic algorithm (NSGAI) convergence efficiency case study
 - Integration of Platypus-Opt optimization library in Python
- 05/2020 - 07/2020 **Ma.Sc. Course - Global Optimization, *University of Windsor, Canada***
- 4-month course on optimization problems with solutions written in MATLAB
 - Analysis on solver performance and optimization theory
 - Objective functions for metaheuristic and nonlinear functions
- 05/2017 - 07/2020 **Propulsion Team Lead (University of Windsor Team), *SpaceX - The Hyperloop Pod Competition, USA***
- Met Elon Musk and held weekly design reviews with SpaceX engineers
 - 2 years of Python programming through issue-tracking and software revisions
 - Led a team of engineering students to rank among the top 21 finalists worldwide

Professional Experience

- Seit 08/2021 **Junior Software Developer, *Kinarm, Canada***
- Java and Python backend programming resulting in 3 projects and 21 combined resolved tickets
 - Operate within the leading IT role resulting in 4 projects and 33 resolved tickets
 - Assembly and integration of Linux Ubuntu host server and Windows Server 2022
- 08/2018 - 07/2021 **Controls Specialist, *Brave Control Solutions, Canada***
- IIoT asset data collection project for Ford using MQTT broker and Siemens Simatic IPC
 - ABB Robot programming in Rapid to synchronize adaptive welding
 - Commissioned mechatronic projects across Mexico, USA, Canada
- 05/2017 - 08/2017 **Controls Design - Intern, University of Windsor, *Valiant Machine & Tool Inc., Canada***
- PLC programming of weld cells using Rockwell, RSLogix
- 06/2016 - 08/2016 **Electrical Assembly, *EnerQuest, Canada***
- Assembled high voltage E-Houses for high power transmission (30 kV)

Language Skills

German - B2 (Native)

English - C2

Spanish - A1

Profile of Technical Skills

- Programming** Python (*Playpus-Opt, Pandas, JSON, Tensorflow*), Java (*Swing*), C++ (*Eigen*), Version Control (*Git, Subversion*)
- Software** Project Tracking (*Jira, Confluence*), CAD (*ANSYS, AutoCAD, Fusion360*), PLC (*Siemens TIA, Rockwell RSLogix*)