Michael U. Thamm

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Website: https://michaelthamm.github.io/
Date of Birth: 08/10/1997, Germany
Nationality: German, Canadian

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 (NSGAII) 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

Language Skills

German - B2 (Native) **English - C2** **Spanish - A1**

Professional Experience

Seit 08/2021 — **Junior Software Developer**, *Kinarm, Canada*
- Java and Python backend programming resulting in 20+ combined resolved tickets
- Operate within the leading IT role resulting in 30+ 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)

Profile of Technical Skills

Programming Languages — Python (Playpus-Opt, Pandas, JSON, Tensorflow), Java (Swing), C++ (Eigen)