Michael Udo Thamm

Website: www.michaelthamm.com
LinkedIn: linkedin.com/in/michael-thamm

Education

08/2019 - 05/2023 **Ma.Sc. - Electrical & Computer Engineering (Part-Time) [GPA: 93.25]**
Charge Labs - University of Windsor, Canada
- Working within a Tier 1 Canada research chair lab for electrified vehicles
- Multi-objective genetic algorithm optimization of high-speed linear induction motors
- 4-month course on optimization foundations (neural networks, application case studies)
- 4-month course on sensor and vision systems (K-Means clustering, image filtering/processing)

08/2015 - 08/2019 **Ba.Sc. - Electrical & Computer Engineering, Minor in Mathematics [GPA: 79.17]**
University of Windsor, Canada
- Capstone Project - Linear induction motor integration for SpaceX-Hyperloop competition

Related Experience

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
- Led a team of engineering students to rank among the top 21 finalists worldwide
- 2 years of Python programming for integration and optimization of propulsion system

Professional Experience

Since 10/2022 **DevOps Engineer**, *riskine, Austria*
- Managed 26 Linux servers with ~ 150 closed MRs across 30 projects
- Successfully migrated Traefik and Docker as a Global System Administrator
- Piloted the integration of Microsoft InTune MDM/MAM and Terraform Azure AD provisioning
- Integrated SSO, authentication flows and scalable system architecture

08/2021 - 08/2022 **Junior Software Developer**, *Kinarm, Canada*
- IT responsibilities and Java/Python backend programming ~ 5 projects and 44 resolved tickets
- Assembly and integration of Linux Ubuntu host server and Windows Server 2022
- On-site installation and collaboration with neuroscience researchers using Kinarms

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

English - C2 **German - C1** **French - A2** **Spanish - A1**

Profile of Technical Skills

Programming	**Python** (*Pytest, Flask, JSON, Logger, wxPython*), **Java** (*Apache, JUnit, Swing*), **C++** (*Eigen, SDL2*), **MATLAB** (*Optimization Toolbox*), **Powershell** (*Disk Management*), **Bash**
Dev Tools	**Version Control** (*Git, Subversion*), **Virtualization** (*VMs, Docker*), **CI/CD** (*Terraform, GitLab, AWS*)
Software	**Project** (*Atlassian*), **CAD** (*ANSYS, AutoCAD, Fusion360*), **PLC** (*Siemens, Rockwell*)