Michael Udo Thamm

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Professional Experience

Since 10/2022 **DevOps Engineer**, *riskine, Austria*
- Managed 26 Linux servers with ~ 30 projects and 200 resolved tickets
- Managed database migrations and CI/CD projects as a Global System Administrator
- Piloted the integration of Microsoft InTune MDM/MAM and Terraform Azure AD provisioning
- Integrated Traefik/Keycloak SSO, authentication flows and scalable system architecture
- Substantial work with Git, GitLab, Docker, Python, Kubernetes, AWS IAM

08/2021 - 08/2022 **Software Developer**, *Kinarm, Canada*
- IT responsibilities and Java/Python backend programming ~ 5 projects and 44 resolved tickets
- Assembly and integration of Linux Ubuntu and Windows Server 2022 host servers
- 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)

Education

08/2019 - 05/2023 **Ma.Sc. - Electrical & Computer Engineering (Part-Time)**
Charge Labs - University of Windsor, Canada
- Working within a Tier 1 Canada research chair lab for electrified vehicles
- Python multi-objective genetic algorithm optimization of high-speed linear induction motors
- 4-month courses on optimization foundations (neural networks) and vision systems

08/2015 - 08/2019 **Ba.Sc. - Electrical & Computer Engineering, Minor in Mathematics**
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*
- Weekly design reviews with SpaceX engineers and was congratulated personally by Elon Musk
- 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

Language Skills

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

Profile of Technical Skills

Programming Python, Java, C++, MATLAB, Powershell, Bash, PHP, Golang, PLC (*Siemens, Rockwell*)

Dev Tools Version Control (*Git, Subversion*), Virtualization (*VMs, Docker*), CI/CD (*GitLab CI, GitHub Actions*), IaaC (*Terraform*), Kubernetes

Cloud Software Azure Stack, GitHub, GitLab, AWS IAM, Jira/Confluence, Keycloak, Traefik

Operating Systems Linux (*Ubuntu Server & Desktop, Raspbian, Kali*), Windows (*Server 2012, 2016, 2022*)

Engineering Tools ANSYS Electronics, Fusion 360, 3D-printing, Raspberry Pi, Arduino