

Ing. Hannes Brantner, MSc

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EDUCATION

- 2019 - **Vienna University of Technology** MSc (Computer Engineering)
- 2021
- Master Thesis on introducing novel machine learning models that capture long-term dependencies in time series data
 - Grade average 1.1
 - Visited courses on Information Technology in Automation (SysML, Python), Autonomous Racing Cars (ROS), Signal Processing, Advanced Multiprocessor Programming (C++), and Stochastic Foundations of Cyber-Physical Systems
 - Only around five graduates per year in this Master's program
- 2016 - **Vienna University of Technology** BSc (Computer Engineering)
- 2019
- Bachelor Thesis on smart manufacturing retrofitting for brownfield systems, a paper based on the thesis got accepted in ISM 2019 conference
 - Grade average 1.89
 - Visited courses on Pattern Recognition (Python), Data Base Systems (PostgreSQL), Operating Systems (Linux), and Microcontrollers (C)
- 2011 - **HBLFA Francisco Josephinum** Matura (Agriculture)
- 2016
- Top of the year, grade average 1.0
 - Received "Ingenieur" title in 2021
 - Subjects on Chemistry, Biology, Physics, Plant and Livestock Production

WORK EXPERIENCE [linkedin.com/in/hannesbrantner](https://www.linkedin.com/in/hannesbrantner)

- 2022- **Head of Software Development, EfficientIO GmbH, Vienna (ongoing)**
- Maintenance of a real time application that collects, visualizes and analyzes energy-related time series data in a B2B environment (Vue and Go, Python for machine learning)
 - Architecture design and implementation of a real time application that that collects, visualizes and analyzes energy-related time series data in a B2C environment with 100% test coverage (Angular and NestJS)
 - Migration of unresponsive web code to be responsive and ported it to native apps
 - Implementation of static code analysis tools and CI/CD systems based on GitHub Actions
- 2021- **Full-Time Developer, Kopfwerk Datensysteme GmbH, Vienna (11 months)**
- Maintenance of a dental practice management software in C++
 - Implementation of static code analysis tools and of a CI/CD system based on GitHub Actions
- 2021- **Full-Time Developer, Siemens Personaldienstleistungen GmbH, Vienna (4 months)**
- Implementation of a factory simulator in C++ which will be later used as an environment for a reinforcement learning application
- 2018 - **Part-Time Developer, Raiffeisen Software GmbH, Vienna (12 months)**
- 2019
- Full Stack Developer (Java, JavaScript, SQL) for a customer management software
 - Responsibility for automation of front-end and back-end test cases (LeanFT and JMeter)

PROGRAMMING EXPERTISE *github.com/Oidlichtnwoada*

2016-2021 **Completed Projects:** Neural Network Arena (Python), OPC UA Server Wrapper (Python), Reinforcement Learning (Python), Imitation Learning (Python), Interpolation-Based Model Checking (Python), MIPS Processor (VHDL), Microcontroller Radio (C), Concurrent Data Structures (C++)

SKILLS & INTERESTS

Languages	German (native), English (fluent)
Technologies	Typescript, Python, Go, Rust, C(++), PyTorch, SQL, Git, Java, Linux, Docker, Kubernetes
Societies	Tennis Team
Interests	Machine Learning, Medicine, Economics, Chess