



Timo Bachmann

CONTACT

-  tfachmann.com
-  bachmann.tj@gmail.com
-  tfachmann
-  +49 175 8682972
-  80337 Munich, Germany
-  April 12, 1998
-  German, Swiss

ABOUT ME

Passionate about making things work and learning new tools. Dives deep into nerdy topics of Linux, new programming languages and paradigms, software engineering and machine learning. Strong focus on writing readable, testable, parallelizable and safe source code. A terminal with Vim and tmux is all I need. Likes hiking and poetry.

KEY SKILLS

- **Artificial Intelligence**
ML, data vis, optimization
- **Robotics**
7-DoF LWRs, Ontologies
- **CI & Deployment**
Conan, Docker, Jenkins
- **Linux & Terminal**
Fast with linux, vim, tmux
- **Languages**
C++, Python, Rust

LANGUAGES

- German** Native
- English** C2
- French** B1

Education

- 2021 – Now** **Technical University Munich (TUM)**
M.Sc Robotics, Cognition, Intelligence
Current grade: 1.9
- 2017 – 2020** **Cooperative State University Mannheim (DHBW)**
B.Sc. Information and Communication Technology
German Aerospace Center (DLR)
Final grade: 1.3
- 2007 – 2016** **Allgemeine Hochschulreife**
Alexander-von-Humboldt Gymnasium
Final grade: 1.3

Work Experience

- 2017 – Now** **German Aerospace Center (DLR)**
Department of Cognitive Robotics, Industrial Robotics
- 2020 – Now
Research Scientist and Engineer
Kinematic workspace analysis, autonomous task execution and ontological representation of data in the industrial robotics domain.
- 2017 – 2020
Working Student
Joint dual study program with DHBW.
- 2016 – 2017** **Robert-Dyckerhoff Foundation, Thailand**
Volunteer – Teaching English language

Publications

- Bachmann, Timo (2020). *Automated Layout Planning for Reconfigurable Robotic Assembly Cells*. Bachelor Thesis. Baden-Wuerttemberg Cooperative State University (DHBW).
- Bachmann, Timo, Korbinian Nottensteiner, Ismael Rodriguez Brena, et al. (2020). “Using Task-Specific Workspace Maps to Plan and Execute Complex Robotic Tasks in a Flexible Multi-Robot Setup”. In: *ISR 2020; 52th International Symposium on Robotics*.
- Bachmann, Timo, Korbinian Nottensteiner, and Máximo A. Roa (2021). “Automated Planning of Workcell Layouts Considering Task Sequences”. In: *2021 IEEE International Conference on Robotics and Automation (ICRA)*.
- Schäfer, Philipp Matthias et al. (2021). “Flexible Robotic Assembly Based on Ontological Representation of Tasks, Skills, and Resources”. In: *Proceedings of the International Conference on Principles of Knowledge Representation and Reasoning* 18.1.

Skills and Tools

Core Programming Languages



Deployment Tools



Other Tools

