

# Michael Pabst

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## Education/Academic

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2021 – 2023      **Technical University of Munich – Department Computer Science**  
Master of Science Robotics, Cognition, Intelligence

2015 – 2019      **University of Stuttgart – Department Mechanical Engineering**  
Bachelor of Science Mechanical Engineering, top 3 %

## Work Experience

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April 2021 -  
Aug. 2022      **Working Student: Dromni GmbH, München**  
VR/AR/Networking

Okt. 2020 -  
Feb. 2021      **Internship: Porsche AG, Weissach**  
- Data Analysis

Okt. 2020 -  
Feb. 2021      **Student Assistant: Fraunhofer Institute for Manufacturing Engineering and Automation  
IPA, Stuttgart**  
Machine Learning, 3D Scanning

Nov. 2019 -  
Sep. 2020      **Internship: Max-Planck-Institut for Intelligent Systems, Tübingen**  
- Digital Humans Research

## Teaching Experience

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April 2019 -  
Aug. 2019      **Student Assistant: Institute for Systems Theory and Automatic Control  
University of Stuttgart, Stuttgart-Vaihingen**  
- Tutor in Systemdynamics

## Publications

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E. Bonetto, P. Goldschmid, **M. Pabst**, M. J. Black, A. Ahmad – **iRotate: Active Visual SLAM for Omnidirectional Robots**. Robotics and Autonomous Systems, 2022.

C. Landgraf, B. Messe, **M. Pabst**, G. Martius, F. Huber – **A Reinforcement Learning Approach To View Planning For Automated Inspection Tasks**. MDPI Sensors, 2021.

R. Tallamraju, N. Saini, E. Bonetto, **M. Pabst**, Y. Tang, M. J. Black, A. Ahmad – **AirCapRL: Autonomous Aerial Human Motion Capture using Deep Reinforcement Learning**. IEEE Robotics and Automation Letters (RA-L) and IROS, 2020.

## Skills

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Advanced:            Python, Matlab/Simulink  
Intermediate:      C++, C#, ROS, Gazebo, Unity, Solidworks, Solidity, Blender, Git  
Basic:                Unreal Engine

## Social Engagement

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Okt. 2017 -  
March. 2018      Voluntary work as Mentor at the international Office – University of Stuttgart  
(Internationales Zentrum (IZ) Stuttgart - Dezernat Internationales)

2004 - 2015      Lifeguard at the Deutsche Lebens-Rettungs-Gesellschaft e.V.

## Support programs

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Aug. 2019 –  
Nov. 2020      Academy of the Institute of Industrial Automation and Software Engineering

Juni 2019 –  
Nov. 2020      Academy of the Institute for Control Engineering of Machine Tools and Manufacturing Units

Sep. 2016 –  
Nov. 2020      Support Programm of the Institute of Industrial Manufacturing and Management IFF and of the  
Institute for Manufacturing Engineering and Automation IPA