PHILIPP FRIEDRICH

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Education

2019 - 2021

Technische Universität München
Master of Science „Robotics, Cognition and Intelligence"

2015 - 2019

University of Tübingen
Bachelor of Science „Medieninformatik"
Thesis: „*Camera-Based Vehicle Detection and Optical Flow Estimation for Real-Time Lane-Change Decisions using Deep Learning*", Grade 1.0
Average Grade: 2.6

2007 - 2015

Gymnasium Ottobrunn
Abitur with W-Seminar „Applied Computer Science"

Practical Experience

April - August 19 Internship at BMW Group

Location: Shanghai, China
Department Autonomous Driving
Topics: Published Paper at IEEE IV2020 – "Real-time long-range road estimation in unknown environments", Development of a tool for an automated start of the AD-Vehicle

October 18 - March 19 Bachelor Thesis at BMW AG

Location: Unterschleißheim, Germany
Department Roadmap, Methodic Artificial Intelligence
Topic: „Camera-Based Vehicle Detection and Optical Flow Estimation for Real-Time Lane-Change Decisions using Deep Learning"

Summer semester 18 Working student at AVAT Automation GmbH

Location: Tübingen, *Germany*
Department Test and Automation
Topics: Further Development and maintenance of automation framework

Winter semester 16/17 Tutor at Universität Tübingen

Location: Tübingen, *Germany*
Course: „User Interface Design" by Jun. Prof. Dr. Alexandra Kirsch

September 14 Student internship at BMW Group

Location: München, Germany

Department IT Drive
Topics: Development of an Android smartwatch application for vehicle localization

Skills

Language

- German – Mother tongue
- English – Business fluent

Programming & Software

HTML, CSS, PHP, C/C++, Java, JavaScript, Python, PyTorch, TensorFlow, OpenCV, OpenGL, Matlab, ROS, Adobe, Gimp, Microsoft-Office

Hobbies

Icehockey