

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

Ice Hockey, Road Cycling, Running