General Information

Name: Nico Weckardt

E-Mail: nweckar@g.clemson.edu

Nationality: German

Core Competencies

- Machine Learning and Deep Neural Networks
- Driver Assistance Systems and Autonomous Driving
- Vehicle Dynamics
- Electric Vehicles
- Embedded Software Development

Education

2021	**Clemson University** **MS Computer Science – Data Science and Informatics** (Fulbright Scholar, Research Assistant)
2016 - 2020	**Technische Hochschule Ingolstadt** **B. Sc. Aircraft and Vehicle Computer Science** Specialization: Automotive (7 semesters)
2018	**Exchange Semester at St. Cloud State University, Minnesota**

Teaching, Research and Work Experience

August 2021	**Research Assistant Drive Lab, Dr. Julian Brinkley** Research in adaptive and personalized User Interfaces in Autonomous Driving and Ride-share for Passengers with special accessibility needs (such as disabled, blind, deaf) using AI
April 2020 – Aug 2021	**Upfront ADAS Validation Engineer at IVECO** Design and Validation of ADAS Systems according to EU General Safety Regulation (responsible for Advanced Emergency Braking System, Blind Spot Detection, Moving Off Information); Supplier Coordination, Definition of Design, Requirements, Simulation, Testing and Validation
October - March 2020	**Bachelor's Thesis at BMW Group: "Using the Indian Buffet Process for Deep Neural Network Learning on Small Datasets"** Federated Learning Model with an Embedded Bayesian Deep Neural Network for Customer Data Collection
January - March 2019	**Internship of 6 weeks at BMW** Development of Android App to Measure Speed and Acceleration through GPS and Gyro during Tests via Smartphone

October - March 2018	**Tutor for "Basics of C Programming Language"** class of Dr. rer. nat. Franz Regensburger at Technische Hochschule Ingolstadt
February - June 2018	**Research of 18 weeks at BMW** Optimization of Operational Strategy for Hybrid Vehicles under Dr. Roland Schmid; Development of Driving Resistance Estimator, Gear Estimator and General Validation of Test Cases
July - September 2017	**Internship of 6 weeks at BMW** Speed-Limit Information Development; Creation of XML based Test Cases for Continuous Integration

Scholarships, Awards and Community Service

2022	Research Assistant DriveLab
2021	School of Computing Graduate Student Government Member
2021	Fulbright Scholar
2016 - 2020	BMW Group SpeedUp Program Scholar
2018	Project Management Student Recognition Award by PMI Minnesota
2018	Travel Expense Grant by the State of Bavaria
2016	Paul Hartmann AG Award: Best state-wide final Grade and Exam in Computer Science with Business Background

Languages

- German (mother tongue)
- English
- French