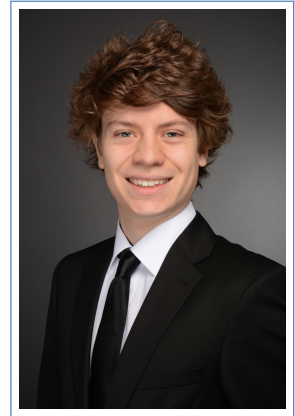# Lars Carius
Curriculum Vitae

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Education

Since 4/2019	**Master of Science in Robotics, Cognition, Intelligence**, *Technical University of Munich*, Munich.
4/2019	**Bachelor of Science in Mechanical Engineering**, *Technical University of Munich*, Munich. Graduation Grade: 1.4 (Top 1%)
3/2015	**Certificate of General Qualification for University Entrance (Abitur)**, *Otto-Schott-Gymnasium Mainz*, Germany. Graduation Grade: 1.0 (100%)
1/2012 – 6/2012	**Exchange Semester**, *Maroochydore State High School*, Australia.

Practical Experience

Internships and Work Experience

10/2019 – 2/2020 — Innovation Project with E.ON FutureLab, *Munich*.
- Extensive market study & product development based on Design Thinking methods

Since 9/2019 — Scholar at Manage&More by UnternehmerTUM, *Munich*.
- Interdisciplinary entrepreneurial projects
- Seminars in the areas of leadership qualification and personal development

4/2019 - 9/2019 — Working Student Simulation Development Autonomous Driving, *BMW Group*, Munich.
- Software development in C++ (openPASS)
- CI-development (Buildserver, Cloud Computing, Git Management)

10/2018 – 4/2019 — Internship Modelling and Decision Sciences Engineer, *McLaren Applied Technologies*, London.
- Developent of a Vehicle Dynamics Simulator including traffic simulation (multi-machine real-time implementation, accepted for the IEEE ICASSP conference 2019)
- Development of multiple vision-based closed-loop Advanced Driver Assistance Systems for real-time driver simulations
- Computer Vision, Object Detection, Deep Learning, Continuous Control

9/2017 – 9/2018	**Research Assistant**, *Gear Research Centre, Chair of Machine Elements*, TU Munich, Munich.

- Supervision of 6 working students
- Development of automatic evaluation and feedback tools (MATLAB, Python, Moodle)
- Development of standalone Windows and Linux applications

11/2017 – 2/2018	**Junior Teaching Assistant**, *Chair of Thermodynamics*, TU Munich, Munich.

- Distinction by the faculty: best exercise course

Projects and Courses

10/2019 – 2/2020	**Semester Project: RGB-D Video Generation using GANs**, *Dynamic Vision and Learning Group (Prof. Dr. Matthias Nießner), TU Munich*, Munich.
11/2019	**Winner of YB Hackathon**, *YB Bern & isolutions*, Bern.

- Cloud-based Augmented Reality android app for ordering and delivering food & drinks in a stadium
- Mapping & navigation using visual feature recognition & tracking

2/2019 – 4/2019	**Formula Pi**, London.

- Participation in a Raspberry Pi based autonomous racing league
- Team leader and technical development

4/2018 – 10/2018	**Bachelor's Thesis "Artificial Intelligence for Cooperative Games"**, *Chair of Automotive Technology*, TU Munich, Munich.
	Grade: 1.0 (100%)

Scholarships and Memberships

Since 11/2019	Think Digital scholarship by the Internet Business Cluster e.V. (IBC)
Since 11/2019	Member of START Munich e.V.
Since 4/2016	Scholarship by the Friedrich Naumann Foundation for Freedom

IT/Computer Science Skills

Basics	C, Codesys, Autodesk Inventor, CATIA V5
Proficient	C++, Java, ARCore, R, TensorFlow, PyTorch, Keras, SUMO, GIT, Microsoft Office, Inkscape, Adobe Acrobat X Pro, Jira, Confluence
Advanced	Python, Kotlin, OpenCV, LaTex, Android Studio, MATLAB, Simulink, rFpro

Language Skills

German	First language
English	Fluent
Italian	Basics

Engagements

Since 10/2019	**Team lead Start-up Tour & Start-up World Tour**, *Manage&More by UnternehmerTUM*, Munich, Germany.

- Leading a team of five to organize a 6 day trip for 20 people to a Warsaw including the organisation of company visits and workshops
- Organisation of monthly online events with international speakers

6/2018	**Organization of a 3 day Industry 4.0 seminar for students**, *Friedrich Naumann Foundation for Freedom*, Munich, Germany.

- Planning, acquisition of speakers, presentation etc.