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SKILLS

MACHINE LEARNING

TensorFlow	■	■	■	■	■
Caffe	■	■	■	■	■
Scikit-learn	■	■	■	■	■

PROGRAMMING

Python	■	■	■	■	■
C++	■	■	■	■	■
Java	■	■	■	■	■
Matlab	■	■	■	■	■
VBA	■	■	■	■	■

SOFTWARE

Linux Ubuntu	■	■	■	■	■
Git	■	■	■	■	■
LaTeX	■	■	■	■	■
QtCreator	■	■	■	■	■
Eclipse	■	■	■	■	■

HARDWARE

Raspberry Pi 2	■	■	■	■	■
Arduino Uno	■	■	■	■	■

EXPERIENCE

Apr 2018 – Oct 2018

MASTER THESIS STUDENT

[Daimler AG \(Athena\) – Vaihingen, Germany](#)

Preliminary title of the thesis: “Synthesizing realistic high-resolution LiDAR point clouds by upscaling with Neural Networks”

Oct 2017 – Mar 2018

RESEARCH STUDENT DEEP LEARNING

[Laboratory for Future Interdisciplinary Research of Science and Technology \(FIRST\) at Tokyo Institute of Technology – Tokyo, Japan](#)

Conduct research and write project thesis about “Prostate Cancer Recognition in MR-images with Keras Deep Learning library”

Oct 2016 – Oct 2017

WORKING STUDENT AUTONOMOUS DRIVING

[Daimler AG \(R&D – Environment Perception\) – Sindelfingen/Vaihingen, Germany](#)

Team LiDAR Systems is part of the autonomous driving cooperation “Athena” with Robert Bosch GmbH and uses the scrum method for software development

- Main project: road marking detection on LiDAR point clouds using fully convolution neural networks on top-view road projection
- Other tasks: write extensions for existing software, office sensor setups for testing, investigation of sensor effects, units tests, other supportive tasks

Apr 2016 – Oct 2016

RESEARCH FELLOW (with CNPq scholarship)

[Center for Informatics at Federal University of Pernambuco \(UFPE\) – Recife, Brazil](#)

Initial phase of a project cooperation of the intra-vehicular networks group and the computer vision lab with development of self-driving car applications:

- Working with KITTI Vision Benchmark Suite
- Research on odometry, SLAM algorithms, object detection and tracking algorithms and data transmission via e.g. Ethernet or CAN in cars
- Applying several algorithms on dataset and evaluate/compare performance
- Link to communication group and set requirements for both working groups

Oct 2015 – Feb 2016

WORKING STUDENT AUTOMOTIVE NETWORKS

[Robert Bosch GmbH \(Automotive Electronics\) – Leonberg, Germany](#)

Executed tasks in an international team of engineers:

- Programming of MS Excel-Tools; requirements engineering in DOORS
- Development of an Ethernet switched network for AVB demonstration and time-synchronization, analyzed with Wireshark and CANoe
- Implement interface for PHY configuration on RaspberryPi 2 in C with Python GUI and setup validation with oscilloscope measurements and switch testing

May 2014 – Jul 2015

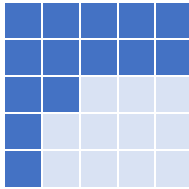
TEACHING ASSISTANT

[University of Stuttgart – Stuttgart, Germany](#)

- Tutor “Computer Science Lab Course” and assistant organizer for “Girl’s Day” at Institute of Communication Networks and Computer Engineering (IKR)
- Supervisor “Electrical Engineering Lab Course” at Institute of Electrical and Optical Communications Engineering (INT)
- Teacher Assistant “Basic Principles of Electrical Engineering” at Institute of Theory of Electrical Engineering (ITE)

LANGUAGES

English
German
Portuguese
French
Japanese



Intensive English courses:
Malta (2012), USA (2009), UK (2006)

SCHOLARSHIPS

[students@bosch \(since Feb 2016\)](#)

Support program and alumni network for top students that worked at Robert Bosch GmbH

[CNPq scholarship \(Apr – Sep 2016\)](#)

Scholarship granted by the Brazilian Government for researchers at federal Institutions in Brazil

[Baden-Württemberg-Stipendium \(Oct 2017 – Mar 2018\)](#)

Scholarship for exchange students at partner Universities granted by the state government

AWARDS

[Frauen MINT Award 2016](#) for the best thesis in the category Automotive Technologies granted by aud!max MEDIEN and Deutsche Telekom

Award for very good school graduation diploma in 2012

INTERESTS

TECHNICAL

autonomous driving, machine learning, image/signal processing, environment perception, object detection and tracking, automotive networks, internet of things, smart home, connected mobility

PRIVATE

ballroom dancing, intercultural exchange, swimming, culture and politics

EDUCATION

Apr 2016 – present

MASTER OF SCIENCE: Electrical Engineering and Information Technology

[University of Stuttgart – Stuttgart, Germany](#)

Focus: Information and Communication Technology

Oct 2017 – Mar 2018

EXCHANGE STUDENT: Information and Communication Engineering

[Tokyo Institute of Technology – Tokyo, Japan](#)

With scholarship granted by Baden-Württemberg Stiftung

Oct 2012 – Mar 2016

BACHELOR OF SCIENCE: Electrical Engineering and Information Technology

[University of Stuttgart – Stuttgart, Germany](#)

Focus: Communication Systems and Signal Processing

Bachelor Thesis: “Extended Human Upper Body Detection”

– pedestrian detection using Matlab Cascade Object Detector

Sep 2004 – Jul 2012

“ABITUR” – HIGH SCHOOL DIPLOMA

[Otto-Hahn-Gymnasium \(academic high school\) – Ludwigsburg, Germany](#)

Science subjects taught in English language

ADDITIONAL QUALIFICATIONS

Nov 2014 – Nov 2015

JUMETA (JUNIOR MENTORING TANDEM)

[Gender equality program for women in technical studies](#)

- Networking events; Career building with a mentor once a month
- Trainings, such as presentation techniques, communication, team building

Sep 2010 – Jul 2011

STUDENT-ENGINEERING-ACADEMY

[One year project in cooperation with schools, University and several companies](#)

Setup and programming of an automated greenhouse (moisture & light regulation)

talKIT: Connected Mobility (2017) and Future City (2014)

Student-Technology-Week 2011: program by Bosch, Daimler and IBM

VOLUNTEERING

Oct 2014 – Sep 2017

MENTOR AT CROSS-CULTURAL-MENTORING

[Supportive program for international students at University of Stuttgart](#)

- Assist with administrative formalities, introduce University system and campus, participate/organize main program events, e.g. international evening
- soft-skill trainings, e.g. time management, international competence

Nov 2014 - Aug 2015

MENTOR AT “ICH KANN’S” (“I CAN DO IT”)

[Social program for refugee children by KinderHelden gGmbH Stuttgart](#)

Sep 2009 – Mar 2012

CHILDREN’S COACH FOR WING TCHUN

[Chinese Martial Arts at Kien Kampfkunstschule Ludwigsburg](#)