

Education

University of Stuttgart

M.Sc. IN INFORMATION TECHNOLOGY - CURRENT GERMAN GPA: **1.4**

Courses: Robotics, Optimization, Deep Reinforcement Learning [[link](#)]

Stuttgart, Germany

2019 - 2021

Frankfurt University of Applied Science

B. ENG. IN ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY - GERMAN GPA: **1.5** - US GPA: 3.7/4.0

Thesis: "Approaches to solve kidnapped robot problem" - Grade: 1.0/1.0 [[link](#)]

Frankfurt am Main, Germany

2015 - 2019

Le Hong Phong High School for the gifted

MAJORING IN APPLIED PHYSICS - GPA: **9.2/10**

Ho Chi Minh City, Vietnam

2012 - 2015

Experience

Bosch Center for Artificial Intelligence

RESEARCH INTERN

- Research and implement robotics manipulation skill models with forces/torques reproduction based on Learning from Demonstration (LfD) and Reinforcement Learning (RL) paradigms.
- Successfully developed a proof of concept for the E-bike assembly task.
- Supervised by [Dr. Meng Guo](#).

Renningen, Germany

May 2020 - Present

HLRS - High Performance Computing Center

STUDENT RESEARCH ASSISTANT

- Researched and implemented in C++ new parallel programming models.
- Implemented back-end functionalities in DASH project <http://www.dash-project.org/>
- Maintained and configure HPC systems in HLRS.

Stuttgart, Germany

November 2019 - April 2020

Frankfurt University of Applied Science

RESEARCH ASSISTANT

- Engaged in mobile robotics research (e.g state estimation, path planning) with Prof. Peter Nauth
- Designed and implemented novel Bayesian optimization models using Wifi signal and range sensor data for localization tasks in mobile robots, therefore enhanced the robustness of robot navigation up to 90% pose recovery rate
- Guided new student to operate robots in the Autonomous lab.

Frankfurt am Main, Germany

May 2019 - September 2019

EyeQ Ltd.

ROBOTICS ENGINEER INTERN

- Collaborated with the developer team to develop practical solutions for customers, using state-of-the-art Deep Learning models
- Developed a prototyped navigation platform that can apply in industrial warehouses

Ho Chi Minh city, Vietnam

March 2018 to August 2018

Intel Corporation

PRODUCT DEVELOPMENT ENGINEER INTERN

- Designed and implemented data analysis systems to process and analyze high volume unit test data in generated in manufacturing line
- Weekly validated and reported the quality of the Intel Thunderbolt Product manufacturing line
- Letter of Evaluation can be viewed in this [link](#).

Ho Chi Minh city, Vietnam

Jan 2017 to May 2017

Open-source Projects

Ignition Physics tutorials and API documentation

GOOGLE SEASON OF DOC 2020

- Create comprehensive tutorials on creating/using custom physics plugins for [Ignition Physics](#) to power simulation.
- Create coherent API documentation for Ignition Physics library.
- Project website: [[link](#)], Project proposal: [[link](#)].

Stuttgart, Germany

September 2020 - now

RoboComp's basic components

GOOGLE SEASON OF DOC 2019

- Documented robotics components such as hardware drivers, cognitive processing components, etc.
- Documented tutorial of combining these components in RoboComp ecosystem for specific robotics tasks.
- Project website: [[link](#)], Project proposal: [[link](#)].

Stuttgart, Germany

September 2019 - November 2019

Flexible perception pipeline manipulation for RoboSherlock

*Institute of Artificial Intelligence,
University of Bremen, Germany*

May 2018 - August 2018

GOOGLE SUMMER OF CODE 2018

- Implemented paralleled pipelines scheduler API.
- Implemented robotics module dependencies query interface.
- Improved performance of Robosherlock pipelines by paralleling pipeline processes.
- Project: [\[link\]](#). Docs: [\[link\]](#), Certification: [\[link\]](#).

Multi-modal Cluttered Scene Analysis in Knowledge Intensive Scenarios

*Institute of Artificial Intelligence,
University of Bremen, Germany*

June 2017 - September 2018

GOOGLE SUMMER OF CODE 2017

- Implemented symmetry-based object segmentation algorithm in complex and cluttered scene.
- Implemented object segment API for grasping system.
- Project: [\[link\]](#). Demo: [\[link\]](#) Documentation: [\[link\]](#). Certification: [\[link\]](#).

Skills

- **Language:** Python 2 & 3, C++11 & 14, Java, UNIX
- **Libraries and Frameworks:**
 - **Frameworks:** numpy, sklearn, scipy, pandas, Tensorflow 2, PyTorch.
 - **Robotics:** ROS, Gazebo, openAI Gym, Mujoco, KUKA, Panda arm.
 - **Others:** \LaTeX , Matlab

Honors & Awards

SCHOLARSHIPS

- **Deutschlandstipendium 2020** provides funding for study at the University of Stuttgart.
- **DAAD Scholarship 2019** fully funds to conduct my Bachelor thesis at FH Frankfurt.
- **WUS Scholarship 2018** is financed by the Hessen Ministry of Economics, Energy, Transport and Regional Development (HMWEVL).
- **AmCham Scholarship 2017**, Best of the Bests Award: Top application score, top interview score.
- **eSilicon Scholarship 2017 & 2018**, Sunflower Mission Engineering & Technology Scholarship for Excellence

COMPETITIONS

Hackdays Rhein-Main Best solution Winner

Frankfurt am Main, Germany

HACKDAYS RHEIN-MAIN

May 2019

- Developed an app solution for dialysis patients to plan an optimal travelling round trip via cities, where dialysis treatments are possible.
- Worked as Backend Developer to design optimized algorithms for trip planning and scheduling. Competition website: [\[link\]](#)

UNESCO Hackathon Vietnam Winner

Ho Chi Minh City, Vietnam

FOSSASIA AND UNESCO

October 2018

- Developed the web application, Klima Kage to provide up-to-date climate and environmental data for journalists
- Project: [\[link\]](#).

Publications

GOOGLE SCHOLAR - CITATIONS: 14, H-INDEX: 2

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