Sebastian Dittert

◉ Kanalstr. 126, Berlin 12357

📞 +49 17650 669649

✉ sebastian.dittert@gmx.de, sebastian.dittert3692@gmail.com

in www.linkedin.com/in/sebastian-dittert/

○ https://github.com/BY571

Website

Born: 03. June 1992

WORK EXPERIENCE

October 2019 – March 2020

Graduate, Master Thesis at ZF
ZF Friedrichshafen AG, Friedrichshafen
- Master Thesis: Optimization of the Control of Damper System / Chassis System trough fast learning Deep Reinforcement Learning Algorithms

April 2019 – September 2019

Internship Machine Learning
ABB, Cottbus
- Working on development of autonomous reclaiming method for pithead stocks, based on reinforcement learning
- Working on optimization algorithms of mining processes

October 2016 – January 2017

Internship
Euro-k, Cottbus
- Working on Pressure loss calculations for the secondary air system of a turbo group housing
- Comparison and evaluation of 3D scan surface models as part of the company's internal quality assurance system

EDUCATION

2017 – March 2020

Master of Science (Mechanical Engineering)
From Brandenburgische Technische Universität Cottbus-Senftenberg
- Specialization: Automotive Engineering

2012 – 2017

Bachelor of Science (Mechanical Engineering)
From Brandenburgische Technische Universität Cottbus-Senftenberg
- Specialization: Automotive Engineering

Certifications

April 2020 – May 2020

Udacity Nanodegree: Artificial Intelligence

December 2019 – January 2020

Udacity and Intel AI Edge Scholarship

May 2019 – July 2019

Udacity Nanodegree: Deep Reinforcement Learning

November 2017 – November 2018

Udacity Nanodegree: Self-Driving Car Engineer

Udemy Courses
- Deep Learning with PyTorch-Masterclass, January 2019
- Artificial Intelligence A-Z, Dec 2018
- Artificial Intelligence: Reinforcement Learning in Python, August 2017
- Practical Deep Learning with PyTorch, August 2017
- Machine Learning A-Z, June 2017

Technical skills

Programming Languages	• Python • C++ • Matlab
Deep Learning Libraries	• PyTorch • Keras
Other	• ROS • OS: Linux Ubuntu

Projects

December 2017 – June 2018

Construction of a Robo-Car / Autonomous RC-Car (Hardware and Software)

• Predict acceleration and steering angle through camera inputs and a CNN
• Driving autonomously along a track
• Video

June 2019 – ongoing

Implementing Deep Reinforcement Learning Algorithms from scratch with PyTorch

Github
• Reinforcement Learning Upside-Down
• TD3 and SAC
• PG, PPO
• DDQN, Dueling DQN and Add-ons for Rainbow
• Genetic Algorithms and Evolution Strategies based on Neuro-Evolution
• Multi-Agent RL

Personal skills

Strengths	• High self-motivation. • High curiosity and interest in learning new things. • Ability to work under pressure. • Ability to work individually as well as in a team. • Excellent logical, analytical and computational skills. • Positive attitude
Languages Known	• German : Native speaker • English : Fluent • Spanish : Beginner

Hobbies

• Sports
• Reading
• Cooking
• Technical tinkering
• learning and exploring new things