

Sebastian Dittert

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- https://github.com/BY571

Website

Born: 03. June 1992

WORK EXPERIENCE

November 2020 - ongoing

Research Assistant

Computational Science Laboratory Universitat Pompeu Fabra (UPF), Barcelona

September 2020 - ongoing

Machine Learning Engineer

Quantfolio.Al

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

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