

# Ole Petersen

## Curriculum vitae

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### EDUCATION

2020-10 – NOW  
Technical University of Munich  
*Bachelor of Science Engineering Science*  
Score: 1.4

2009-06 – 2020-04  
Gymnasium Mainz-Oberstadt  
*Gymnasium*  
Score: 1.0

### SKILLS

ADVANCED	Golang, Typescript
INTERMEDIATE	C++, Julia, Java, Python, PyTorch, TensorFlow, Kubernetes, Docker, Git, VSCode, SQL, Grafana, Prometheus, Humio, Linux, React/NextJS
BEGINNER	Rust, Terraform, Azure
LANGUAGES	German, English, French, Spanish

### JOBS AND INTERNSHIPS

2020-09 – NOW  
Working student DevOps  
*QAware*  
Solving Cloud Native problems in a team for Telekom Magenta Voice  
- Implemented automated documentation to make it easier for developers to work on the platform  
- Improved observability  
- Worked on automation tasks

2017-01 – 2020-09  
Tutor  
*Tuition in Mathematics, Physics, IT and English*  
Professional tuition for students from school and university

2018-01 – 2018-02  
Intern  
*DLR Braunschweig*  
Student internship, getting to know the basics of CFD

2021-02 – NOW  
Founder  
*TUM*  
Founding of a student group developing a platform that allows students to find their next student group

2020-05 – 2020-06  
Voluntary tutor in old school  
*Gymnasia Mainz-Oberstadt*  
Voluntary support of mathematics and IT courses in my old school, helping out to overcome the difficulties of covid restrictions

2020-11 – NOW  
Jury member  
*Bundeswettbewerb Informatik*  
Being part of the evaluation team for the Bundeswettbewerb Informatik twice a year (including a small compensation)

### AWARDS

2021-09  
Deutschlandstipendium  
*TUM*  
I was chosen to be a scholar of the Deutschlandstipendium.

2020-09  
Awardee of the final run of the 38th BWInf  
*Bundeswettbewerb Informatik*  
Got awarded in the final run of the 38th Bundeswettbewerb Informatik, a national competition for high school students in Germany

2020-06  
National mathematics Olympiad Germany  
*Mathematik-Olympiaden e.V.*  
Participation in the online version of the national mathematics olympiad

2018-06  
National mathematics Olympiad Germany  
*Mathematik-Olympiaden e.V.*

Participation in the national mathematics olympiad

2014  
Jugend trainiert Mathematik  
*Bundesweite Mathematikwettbewerbe*

Participation in a program to train young mathematicians, consisting of two seminars per year and monthly exercise sheets

## PERSONAL PROJECTS

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2021-06 – NOW  
React, Postgresql, Docker, Kubernetes  
*Huddle*

Founding of a student group developing a platform that allows students to find their next student group

2021-09 – 2021-09  
Drones, Auctions, Decentralized Systems  
*Collaborative Drone Interactions*

Participation in the Decentralized Drone Interactions Team of the Ferienakademie, investigating the decentralized deployment of drones with a focus on automated auctions

2018-06 – 2020-06  
CAD, Aerospace, Engineering  
*H7-Jet*

Design of a flying-wing radio-controlled plane from the ground up

2019-07 – 2020-06  
Aerospace, Engineering, C++, Arduino, PlatformIO  
*Flight Data Telemetry for RC Airplanes*

Development of hardware and software necessary to get live data from an RC plane to a laptop

2020-06 – 2020-08  
Python, Tensorflow, Keras, Aerospace, Engineering  
*AI-Autopilot*

Development of an AI-based autopilot prototype in a team of four

2019-09 – 2020-06  
C++, OpenCL, WebAssembly, Emscripten, Javascript, Neural Networks  
*ANN-Modules*

Development of a custom library to flexibly build

neural networks; experimenting with GPU acceleration; porting to WebAssembly

2020-06 – 2020-07  
C++, Arduino, PlatformIO, Engineering  
*SPMSatRx*

Arduino/PlatformIO library to interface spektrum satellite receivers

2018-07 – 2019-07  
Java, Simulation, Eclipse  
*Economy Simulation*

Development of a simulation of a simple economy, modeling the production and the consumption of goods, special focus on a custom PriorityQueue

– NOW

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*Heidelberger Life-Science Lab*

Participation in HLSSL, a program encouraging young students to do their own research projects

## OTHER INTERESTS

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- Outdoor running
- Camping
- Building RC Aircraft
- Reading tech stories