Michael Deistler

Curriculum Vitae

Education

since 2017 **Elite Master of Science in Neuroengineering**, *Technical University of Munich*, Munich.
Specialized in Computational Neuroscience

2017 **Semester abroad**, *KTH Royal Institute of Technology*, Stockholm, *German Grade – 1.3, American GPA – 3.7*.

2013–2017 **Bachelor of Science in Electrical and Information Engineering**, *Technical University of Munich*, Munich, *German Grade – 1.2, American GPA – 3.8*.
Degree with Honours

2013 **Abitur / Highschool Degree**, *Gymnasium Landau a. d. Isar*, *German Grade – 1.1, American GPA – 3.9*.

Bachelor Thesis

Title *Temporal Interpolation of Grayscale Frames using Event Data from the DAVIS240*

Supervisors Professor Eckehard Steinbach & PhD Christoph Bachhuber

Description Dynamic Vision Sensors are a neuromorphic camera technology recording event data on an almost continuous time-scale. Additional to this data, the DAVIS240 also records traditional frame-based videos. This thesis explored the fusion of this data in order to create super slow-motion videos.

Experience

2018 **Six Week Research Project**, University of Edinburgh, Chair for Computational Neuroscience, Edinburgh, Supervisors: PhD. Matthias H. Hennig, Martino Sorbaro.
- Worked with biologically plausible Neural Network architectures
- No further information due to upcoming publication possible

2017-2018 **Working Student**, Brainlab AG, Munich, Platforms Department.
- Implementation of a Script for automatic Bootcycle Tests
- Electrical Circuit Design

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2014-2018 **Research Assistant**, Chairs of 'Human-Machine-Communication', 'Signal Processing Methods' and 'Integrated Systems', Munich.
Teaching of classes to undergraduates throughout several semesters. The courses were:
- Digital Circuits
- Stochastic Signals
- Signal Representation

2016 **Six Month Internship**, BMW, Center for Autonomous Driving, Munich.
- Development of an Algorithm for movement compensation
- OpenCL Parallelization of a Particle Filter for environment capturing
- Integration of the software components in ROS

2015 **Eleven Week Internship**, German Aerospace Center, Center for Communication and Navigation, Munich.
- Measure Propagation Conditions of Radio Signals
- Create a GUI for data Visualization of an IMU (Inertial Measurement Unit)

2013-2014 **Participation in the AdvEIsor Program**, Technical University of Munich, Munich.
Soft-Skill program offered by the TU Munich. Additionally, gained hands-on experience by building a rotor display in a group of ten people.

Programming Languages

PYTHON **Advanced**, *Course project in Deep Learning; Research Project in Edinburgh.*

MATLAB **Advanced**, *Nine-week working experience at DLR; Bachelor Thesis.*

C++ **Intermediate**, *Self studies; Five-month working experience at BMW.*

C **Intermediate**, *University course.*

JAVA **Basic**, *Two-year eduction in highschool.*

Languages

German **Mothertongue**

English **Very Good**

French **Basic**

Swedish **Basic**

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