David Adrian

Education

02/15 – 07/17 **Add-On Degree in Technology Management**,
Center for Digital Technology and Management, Munich, Germany,
GPA: 1.3 (on a scale from 1 to 5, with 1 being the highest score)
Trend research and ideation of business ideas, new product development and prototyping, consulting on a strategic endeavors. 25 students selected per semester (<7% acceptance rate).

10/14 – 08/15 **M.Sc. in Electrical Engineering and Information Technology**,
10/16 – today *TU München*, Munich, Germany,
Current GPA: 1.5 (on a scale from 1 to 5, with 1 being the highest score)

10/10 – 11/13 **B.Sc. in Electrical Engineering and Information Technology**,
TU München, Munich, Germany,
GPA: 1.9 (on a scale from 1 to 5, with 1 being the highest score)

Bachelor's Thesis: Development of a combined event and RGBD image camera, calibration method, and data acquisition framework. Evaluation in a 3D SLAM application against ground-truth and state-of-the-art visual SLAM algorithms.

Work and Research Experience (selection)

03/17 – 08/17 **Research Assistant**, *Robotise*, Munich, Germany
Perception algorithm development, managing code integration and continuous testing, managing ROS package release process.

01/16 – 08/16 **Research Intern**, *NTT, Communication Science Laboratories*, Atsugi, Japan
Research on human-curated cross-modal feature learning.

10/14 – 07/15 **Research Assistant**, *NavVis*, Munich, Germany
Development of new algorithms for the removal of artifacts in point clouds.

01/14 – 06/14 **Research Intern**, *Siemens AG, Siemens Corporate Research*, Princeton, USA
Implementation of 3D reconstruction workflow; Implementation and evaluation of depth camera calibration techniques; Porting and refactoring of C code to C++.

10/13 – 12/13 **Research Assistant**, *TU München, Neuroscientific System Theory*, Munich, Germany
Extension of an event-based SLAM framework to work in real-time on embedded, low-power ARM hardware (e.g., Rockchip devices), streaming of data via UDP, and visualization on a client device.

09/11 – 11/11 **Intern**, *Siemens AG, I DT MC MF-M COC LMS LP*, Munich
Design and implementation of a test series evaluation tool in MATLAB; Implementation of a wrapper library for Siemens Starter in C#, and integration with LabVIEW.

07/09 – 03/10 **Conscript**, *3. FüUstgBtl 293*, Murnau am Staffelsee, Germany
Trained for SATCOM and TETRAPOL.

Publications

02/18 **Paper**, *NTT*
Mukura, Y.; Kimura, A.; Adrian, D.; Gharamani, Z., Weakly supervised collective feature learning from curated media, Conference on Artificial Intelligence (AAAI), 2018. [submitted]

10/15 **Report**, *Center for Digital Technology and Management*, CDTM
The Future of Education, ISBN: 978-3-9815538-7-1, 2015.

06/14 **Paper**, *Institute of Automatic Control Engineering*, TU München
Weikersdorfer, D.; Adrian, D.; Cremers, D.; Conradt, J., Event-based 3D SLAM with a depth-augmented dynamic vision sensor, IEEE International Conference on Robotics and Automation (ICRA), 2014.

12/13 **Poster**, *Institute of Automatic Control Engineering*, TU München
Weikersdorfer, D.; Adrian, D.; Conradt, J., Event-based 3D SLAM. Bernstein Sparks Workshop on NeuroEngineering, Tutzing, 2013.

Extracurricular Activities

09/17 – 10/17   **Deep Learning and Robotics Challenge**, *Volkswagen Data:Lab*, Germany
Member of winning team. Challenge entailed to build a Lego brick sorting robot with unsupervised clustering.

08/15 – 09/16   **Vulcanus in Japan**, *EU-Japan Centre for Industrial Cooperation*, Japan
Accepted as 2015-16 fellow (4% acceptance rate, >1000 applicants EU-wide)

11/12 – 11/13   **Siemens-Mentoring-Program**, *Siemens AG / TU München*, Munich
The one-year program offers a Senior Manager as mentor, fireside chats, and a variety of events (~15 students per year).

10/10 – 07/11   **AdvElsor Participant**, *TU München*, Munich
Workshops on teamwork, time and project management, learning techniques, and presentation methods. Managed IT sub-team during the final project of building an Autonomous Rubik's-Cube-solving robot. Placed 2nd in the competition.

Voluntary activities

10/12 – 07/15   **Member**, *Federal Agency for Technical Relief (THW)*, Munich
Technical relief in Germany as part of national civil protection measures.

03/12 – 11/13   **Mentor**, *Mentoring for International eXchange Students*, TU München
Mentor and contact person for incoming foreign students.

01/12 – 01/13   **Member of the board**, *Student association of the Department of Electrical Engineering and Information Technology*, TU München

03/11 – 07/15   **Student representative**, *Department of Electrical Engineering and Information Technology*, TU München
Member of the Studienkommission (Commission on study affairs).

Computer Literacy

Operating Systems	Linux (x86_64/ARM), Windows	Office	LaTeX, MS Office, OpenOffice
Programming Languages	C/C++, Python, MATLAB	Libraries	Eigen, PCL, OpenCV, CERES, ROS, Chainer, Tensorflow

Languages

German	Native	English	Proficient (C2)
Japanese	Lower Intermediate (B1)	Norwegian	Beginner (A1)