David Adrian

Education

10/14 – 08/15 10/16 – 04/18	**M.Sc. in Electrical Engineering and Information Technology**, *TU München*, Munich, Germany, *GPA*: 1.3 (on a scale from 1 to 5, with 1 being the highest score)
Master's Thesis	Title: "A Simple But Universal Factorization Model for Knowledge Graph Completion". Results submitted to CIKM 2018.
02/15 – 07/17	**Honours 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) Add-on study program, with a focus on trend research and ideation of business ideas, new product development and prototyping, and consulting on strategic endeavors. 25 students selected per semester (<8% acceptance rate).
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	Title: "Development of a Depth-Augmented Dynamic Vision Sensor for 3D SLAM". Contribution to 2014 ICRA paper.

Work and Research Experience (selection)

11/17 – 04/18	**Master's Thesis Student**, *Mercateo GmbH*, Munich, Germany Research on representation learning of knowledge graphs.
03/17 – 08/17	**Roboticist Freelancer**, *Robotise*, Munich, Germany Consulting, perception algorithm development, managing code integration and continuous testing, managing ROS package release process.
01/16 – 08/16	**Research Intern**, *NTT Communication Science Laboratories*, Honatsugi, Japan Research on human-curated cross-modal feature learning. Contribution to 2018 AAAI paper.
10/14 – 07/15	**Research Assistant**, *NavVis*, Munich, Germany Development of 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 (key feature-based graph-SLAM); 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.
10/12 – 03/13, 04/15 – 07/15	**Teaching Assistant for the C Programming Course**, *TU München*, Munich, Germany Tutoring of around 30-50 students in the programming language C.
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 (>20x speed improvement over existing solution); Implementation of a wrapper library for Siemens Starter in C# and integration with LabVIEW.
07/09 – 03/10	**Private First Class (OR-3)**, *3. FüUstgBtl 293*, Murnau am Staffelsee, Germany Mandatory military service. Trained for SATCOM and TETRAPOL.

Publications

[1] David B. Adrian, Till Brychcy, and Martin Kleinsteuber. "A Simple But Universal Factorization Model for Knowledge Graph Completion". In: *International Conference on Information and Knowledge Management [submitted]*. 2018.

[2]   Yusuke Mukuta et al. "Weakly supervised collective feature learning from curated media". In: *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)*. 2018.

[3]   Irman Abdic et al. *The Future of Education: Trend Report 2015*. Center for Digital Technology and Management, 2015. ISBN: 978-3-9815538-7-1.

[4]   David Weikersdorfer et al. "Event-based 3D SLAM with a depth-augmented dynamic vision sensor". In: *Robotics and Automation (ICRA), 2014 IEEE International Conference on*. IEEE, 2014, pp. 359–364.

Competitions, Awards, and Scholarships

09/17 – 10/17   **1st Place in VW Data:Lab Deep Learning and Robotics Challenge**, *Volkswagen AG*, Munich
Team challenge entailed building a fully autonomous Lego brick sorting robot from scratch.

06/16   **Abroad Scholarship**, *Heinrich und Lotte Mühlfenzl-Stiftung*, Munich
Awarded to students with excellents grades and social engagement at/outside of university.

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   **2nd Place in 'AdvEIsor' Competition**, *TU München*, Munich
Managed IT sub-team during the final project of building an Autonomous Rubik's-Cube-solving robot.

Leadership 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 of the faculty.

01/12 – 01/13   **Member of the board**, *Student association of the Department of Electrical Engineering and Information Technology*, TU München
Management of the registered association, including our business branch. Organized the introduction of a new soft-skill program available to all students as part of the regular degree curriculum.

03/11 – 07/15   **Student representative**, *Department of Electrical Engineering and Information Technology*, TU München
Regular member of the *Studienkommission* (commission on study affairs) and member of the working comitee of the master reform.

Computer Literacy and Open-Source Contributions

Operating Systems	Linux (x86_64/ARM), Windows	Office	LaTeX, MS Office, OpenOffice
Programming Languages	C/C++, Python, MATLAB	Libraries	Tensorflow, Eigen, PCL, OpenCV, ROS
GitHub	github.com/dbadrian		

Languages

German	Native	English	Proficient (C2)
Japanese	Lower Intermediate (A2-B1)		

Hobbies

Mountaineering (high alpine tours, multi-pitch climbing), nature photography, tinkering with hardware

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