
Education

10/14 – 08/15 **M.Sc. in Electrical Engineering and Information Technology,**
10/16 – 04/18 *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".

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". Co-authored 2014 ICRA paper.

Work and Research Experience (selection)

08/18 – today **Software Engineer (part-time),** *NavVis GmbH*, Munich, Germany
Implementation of surface reconstruction algorithms and evaluation framework. Conducting product research through customer and expert interviews.

11/17 – 04/18 **Master's Thesis Student,** *Mercateo GmbH*, Munich, Germany
Research on representation learning of knowledge graphs.

03/17 – 08/17 **Robotist 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. Co-authored 2018 AAAI paper.

10/14 – 07/15 **Research Assistant,** *NavVis GmbH*, 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 (feature-based graph-SLAM) with out-of-core bundle adjustment; 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, **Teaching Assistant for the C Programming Course,** *TU München*, Munich, Germany
04/15 – 07/15 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] Yusuke Mukuta et al. "Weakly supervised collective feature learning from curated media". In: *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)*. 2018.
- [2] Irman Abdic et al. *The Future of Education: Trend Report 2015*. Center for Digital Technology and Management, 2015.
- [3] 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 excellent 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 'AdvElsor' 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 committee 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)		