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## Education

- 07/19 – today **Ph.D.**,  
*Bosch Center for Artificial Intelligence & Institute of Neural Information Processing, Ulm University, Renningen, Germany*  
Research of efficient and robust state-of-the-art methods for dense visual feature learning for robotic manipulation.
- 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.

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## Work and Research Experience (selection)

- 08/18 – 06/19 **Software Engineer for Computer Vision**, *NavVis GmbH, Munich, Germany*  
Implementation of a parallelized TSDF-based surface reconstruction and evaluation framework. Conduct of product research through customer and expert interviews. (part-time)
- 11/17 – 04/18 **Master's Thesis Student**, *Mercateo GmbH, Munich, Germany*  
Research of a novel model for 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 cross-modal feature learning from human-curated content graphs. Co-authored 2018 AAAI paper.
- 10/14 – 07/15 **Research Assistant**, *NavVis GmbH, Munich, Germany*  
Development of algorithm for the removal of point clouds artifacts using SLAM.
- 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 Fortran/F2C 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 (>20x speed improvement over existing solution); Implementation of a wrapper library for Siemens Starter in C# and integration with LabVIEW.

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## Publications

- [2] David B. Adrian, Andras Gabor Kupcsik, Markus Spies, and Heiko Neumann. "Efficient and Robust Training of Dense Object Nets for Multi-Object Robot Manipulation". In: *2022 International Conference on Robotics and Automation (ICRA)*. 2022, pp. 1562–1568.
- [3] Yusuke Mukuta, Akisato Kimura, David B Adrian, and Zoubin Ghahramani. "Weakly supervised collective feature learning from curated media". In: *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)*. 2018.
- [4] Irman Abdic et al. *The Future of Education: Trend Report 2015*. Center for Digital Technology and Management, 2015.
- [5] David Weikersdorfer, David B Adrian, Daniel Cremers, and Jörg Conradt. "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.

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## Competitions, Awards, and Scholarships (selection)

- 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).

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## 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.

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## 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	PyTorch/Tensorflow, PCL, OpenCV, ROS
GitHub	github.com/dbadrian		

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## Languages

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