

# Manuel Zahn

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## EXPERIENCE

### **PARABLE** | New York City, USA

Aug 2024 - Present | Founding Machine Learning Engineer

Developing an AI solution that contextualizes and visualizes how an organization is spending its time, so it can be focused on what matters most, Building up core technology stack and leading initial ML team

### **VIDEAHEALTH** | Boston, USA

Oct 2022 - Aug 2024 | Lead of Machine Learning Engineering Team

Managing all Machine Learning and Data Science engineers, Developing AI vision for the company, Received approval of the largest dental AI FDA submission in history (30+ different AI models in one submission) and the first ever pediatric AI algorithm (first dental AI for age 3+)

Oct 2021 – Oct 2022 | Senior Machine Learning Engineer

Technical leadership on AI development, Project Lead on the companies fastest FDA submission for periodontal disease detection (8 months), Coordination of clinical study, Regulatory documentation, Data annotation and engineering development, (classification, detection, key point identification algorithms)

Sep 2019 - Oct 2021 | Founding Machine Learning Engineer

Development of cutting-edge medical AI algorithms, Annotation collection, Data processing, Deep learning model development, Cloud deployment and monitoring, Technical engineer developing the first FDA approved medical AI device for the company

### **UNIVERSITY OF MASSACHUSETTS** | Boston, USA | Global Entrepreneur in Residence

Mar 2021 - Oct 2021 | Working as a Computer and Information Scientist

Guest lecturer about development of Artificial Intelligence in the medical field, Discussing practices to ensure fairness and unbiased performance on changing demographics, Mentoring students in class projects

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## RESEARCH

### **HARVARD UNIVERSITY** | Cambridge, MA

Oct 2018 – Apr 2021 | Harvard Biorobotics Lab

Algorithm development for segmentation and classification of structural heart diseases based on ultrasound images, Using new Deep Learning approach to reduce requirement for large number of ground truth annotation on pediatric cardiac sequences, Collaboration with the Boston Children's Hospital [\[Paper\]](#)

### **STANFORD UNIVERSITY** | Stanford, CA

Dec 2016 – Jul 2017 | Harvard Biorobotics Lab

Developing an underwater hand gesture recognition to enable diver robot communication, Part of the OceanOne project building a humanoid underwater robot with haptic feedback, Developed new approach using classical computer vision techniques to enable algorithm development on limited datasets [\[Paper\]](#)

### **CENTER FOR DIGITAL TECHNOLOGY AND MANAGEMENT** | Munich, Germany

Feb 2019 – Jan 2022 | Independent Research Project

Designed prototype of a navigation tool for the blind using a haptic feedback sleeve and 3D printed glasses, Down sampling depth camera input and displaying surroundings via haptic motor feedback to wrist of blind person. 60+ articles published about the project in over 30 countries and 15 languages [\[Paper\]](#)

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## EDUCATION

**TECHNICAL UNIVERSITY OF MUNICH** | MS in Electrical Engineering

Oct 2017 - Mar 2019 | Munich, Germany | Machine Learning and Robotics, Focus on AI and Deep Learning

**CENTER FOR DIGITAL TECHNOLOGY AND MANAGEMENT (CDTM)**

Nov 2017 – Jul 2018 | Munich, Germany | Honors Degree in Technology Management, Accepted into the highly competitive joined study program of the LMU and TUM in Munich, Part of the Elite Network Bavaria

**TECHNICAL UNIVERSITY OF MUNICH** | MS in Management

Oct 2017 – Oct 2018 | Munich, Germany | Study program focused on Innovation and Entrepreneurship

**NANYANG TECHNOLOGICAL UNIVERSITY** | Exchange Student

Jul 2014 - Dec 2014 | Singapore | Electrical and Electronic Engineering, Focus on AI and Data Mining, Supported by a scholarship of the Eikon e.V.

**TECHNICAL UNIVERSITY OF MUNICH** | BS in Electrical Engineering

Oct 2012 - Jun 2015 | Munich, Germany | Focus on embedded system design and sensor technology

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## HONORARY POSTS

**STANFORD DIGITAL SHAPERS** | Co-Founder | Stanford club that aims to increase awareness of the impacts of technology on society by organizing events and discussions

**STUDENT ASSOCIATION** | Editor of the student newspaper “Trafo” of the Technical University of Munich and voluntary work at the student association

**MEET2LEARN** | Mentor and homework tutor of the “meet2learn” program by helping younger students with their homework every Friday after school

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## SCHOLARSHIPS

**Foundation of German Business (sdw):** Selected as scholar of the Klaus Murmann program in 2015, The sdw program focuses on supporting talented students in thinking and acting entrepreneurially with social responsibility, students invite guest lecturers, participate in political discussions and visit industry leaders

**BAVARIAN ELITEACADEMY:** Selected into the 16th class of the prestigious Bavarian EliteAcademy (BEA) in 2014, supports gifted and motivated students from all Bavarian universities on their way to becoming responsible leaders, the program includes seminars on personal development and leadership, ethics and responsibility and interdisciplinary and intercultural thinking

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## COMPETITIONS

**THINK.MAKE.START:** Winner of the 2018 start-up competition of the Technical University of Munich

**5 EURO STARTUP:** Winner of the 2015 start-up competition of the University of Munich (LMU)

**ROBO SOCCER:** 2nd at national student robotic competition, 2nd at world championship 2011 in Istanbul

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