

# Manuel Zahn

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## RESEARCH

**HARVARD UNIVERSITY** | Visiting Researcher

Harvard Biorobotics Lab | Nov 2018 – May 2019 | Cambridge, MA

Using Deep Learning for segmentation and classification of structural heart diseases based on ultrasonic images, data cleaning, preprocessing and model training [\[Paper\]](#)

**STANFORD UNIVERSITY** | Visiting Researcher

Department of Computer Science, Stanford Robotics Lab | Jan - Jun 2017 | Stanford, CA

Developing a vision-based underwater hand gesture recognition [\[Paper\]](#)

## EXPERIENCE

**VIDEAHEALTH** | Boston, USA

Oct 2022 - Present | Lead of Machine Learning Engineering Team

Managing all Machine Learning and Data Science engineers,, 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

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 | Machine Learning Engineer

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

**MAGAZINO GMBH** | Intern Development

Nov 2016 - Dec 2016 | Munich, Germany | Supporting quality management of warehouse robot development, Design of a production test bench to identify quality issues in production line, PCB-design, Python programming, Development of an intelligent sorting algorithm to increase testing speed

## EDUCATION

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

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

**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 | 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

## LANGUAGES

### SPOKEN & WRITTEN

Native fluency:

English, German

Limited proficiency:

Chinese, French

### PROGRAMMING

Advanced:

Python, PyTorch, AWS

Basic knowledge:

Keras, C++, HTML, PHP

## ACHIEVEMENTS

### 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)

### ADVEISOR:

2nd place at the robotic competition of the Technical University of Munich 2013

### ROBO SOCCER:

2nd and 3rd at national student robotic competition, 2nd at world championship 2011 in Istanbul, Turkey

### “JUGEND FORSCHT”:

Winner of prestigious German high school science competition 2010

### MATHEMATICS:

2nd price at the national “Känguru” student mathematic challenge 2010

## SCHOLARSHIPS

**SDW:** Selected as scholar of the Foundation of German Business (sdw) in 2015

### BAVARIAN ELITEACADEMY:

Member of the 16th year class of the prestigious Bavarian EliteAcademy in 2014