

Andreas Ziegler

Robotics & CV Researcher/Engineer

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https://andreasaziegler.github.io



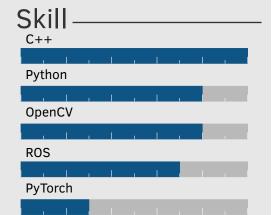
062.127@gmail.com



Please find my full CV here

About me -

I am passionate about a mix of robotics and computer vision research and industrial/commercial applications. My vision is to develop novel algorithms and make them work on real robots. I enjoy working independently on research and engineer projects, but I also appreciate the opportunity to exchange ideas with a variety of individuals from various backgrounds.



(*)[The skill scale is in years of experience.] Languages

German: Level C2 English: Level C1 French: Level B1 Korean: Level A2 Chinese: Level A1

education

since 2021 PhD. Candidate in Robotics & Computer Vision University of Tübingen Event-based computer vision for fast robot control

2014-2018 MSc. ETH in Electical Engineering ETH Zürich Specialized in: Robotics, Computer Vision and Machine Learning

2009-2013 BSc. FHO (HSR) in Electrical Engineering

Specialized in: Digital Signal and Image Processing, Embedded Systems

and Software Engineering and Mobile Communication

Did an exchange year at the Shanghai Jiao Tong University in China

publications

[1] A. Horvath, A. Ziegler, S. Gerhard, et al., "Focus on time: Dynamic imaging reveals stretch-dependent cell relaxation and nuclear deformation," Biophysical Journal, Jan. 2021.

[2] A. N. Horvath, A. A. Ziegler, S. Gerhard, et al., "Time-controlled multichannel dynamic traction imaging of biaxially stretched adherent cells," Mar. 2020.

[3] T. Cieslewski, A. Ziegler, and D. Scaramuzza, "Exploration without global consistency using local volume consolidation," in IFRR International Symposium on Robotics Research (ISRR), Hanoi, 2019, IFRR: IEEE, Oct. 2019.

experience

2021-PhD Candidate University of Tübingen, Tübingen Working on event-based computer vision for fast robot control in collab-

oration with Sony AI Zürich.

2022 Computer Vision & ML Research Intern Prophesee, Paris

Worked on slow motion from frame and event data.

2018-2021 Robotics Engineer MT-Robot AG, Zwingen

Development and maintenance of software for autonomous mobile robots (AMRs), including topics such as multi sensor fusion, mapping, path plan-

ning, (multi robot) obstacle avoidance, etc., Deputy Scrum Master.

2018 Research Assistant University of Zürich, Robotics and Perception Group, Zürich Continued working on my master thesis project which lead to [3].

2018 Research Associate Intern Disney Research Zürich, Zürich

Integrated a Leica total station in an existing ROS setup within the Paint-

Copter project.

2018 Research Assistant Laboratory for Orthopaedic Biomechanics, Zürich

Developed an LED light controller for a microscope setup which con-

tributed to [2].

2017 Computer Vision & Robotics Research Intern Pix4D SA, Lausanne

Worked on indoor navigation for UAVs, investigation of barcode localiza-

tion and detection algorithms for automatic inventory.

2015-2018 Software Engineer & System Administrator (20%) Accelerom AG, Zürich

2013-2014 Research Assistant (Civil service) CARD, University Hospital Balgrist, Zürich

Worked on segmentation algorithms for computer-assisted surgical plan-

2013 Research Assistant (Civil service) Laboratory for Orthopaedic Biomechanics, Zürich

Extended and adapted a microscope control software which contributed

to [1]

2004-2008 Electronics Engineer Apprentice

Hch. Kündig & Cie. AG, Rüti

other information

In my free time, I like to do sports as balance to work. I also volunteer as a Foodsaver at Foodsharing and manage a Labdoo hub.