

Andreas Ziegler

Robotics & CV Researcher/Engineer

25 March 1988



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https://andreasaziegler.github.io



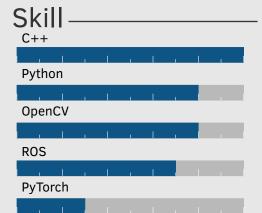
062.127@gmail.com



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.]

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

Development and maintenance of software for autonomous mobile robots (AMRs), including topics such as multi sensor fusion, mapping, path planning (multi robot) obstacle avoidance, etc., Deputy Scrum Master

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

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

Worked on segmentation algorithms for computer-assisted surgical plan-

ning

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 atFoodsharing and manage a Labdoo hub.