



Andreas Ziegler

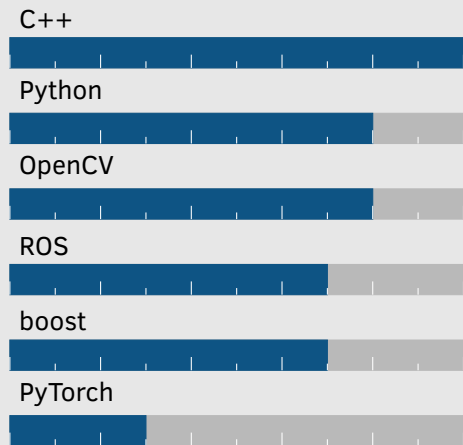
Robotics & CV
Researcher/Engineer

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- 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 researcher and engineer projects, but I appreciate the opportunity to exchange ideas with a variety of individuals from various backgrounds.

Skill



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

education

- since 2021 Ph.D. Candidate in Robotics & Computer Vision Tübingen, Germany
Event-based vision for fast robot control
- 2014-2018 MSc. ETH in Electrical Engineering Zürich, Switzerland
Specialized in: Robotics, Computer Vision and Machine Learning
- 2009-2013 BSc. FHO (HSR) in Electrical Engineering Rapperswil, Switzerland
Specialized in: Digital Signal and Image Processing, Embedded Systems and Software Engineering and Mobile Communication

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- Ph.D. Candidate University of Tübingen
Working on event-based computer vision for fast robot control in collaboration with Sony AI Zürich.
- 2022 Computer Vision & ML Research Intern Prophesee
Worked on slow motion from frame and event data.
- 2018-2021 Robotics Engineer MT-Robot AG
Development and maintenance of software for automated guided vehicle (AGVs), including topics such as multi sensor fusion, mapping, path planning, (multi robot) obstacle avoidance, etc., Deputy Scrum Master.
- 2018 Research Assistant University of Zürich, Robotics and Perception Group
Continued working on my master thesis project which lead to [3].
- 2018 Research Associate Intern Disney Research Zurich
Integrated a Leica total station in an existing ROS setup within the Paint-Copter project.
- 2018 Research Assistant Laboratory for Orthopaedic Biomechanics at the University and ETH Zurich
Developed an LED light controller for a microscope setup which contributed to [2].
- 2017 Computer Vision & Robotics Research Intern Pix4D SA
Worked on indoor navigation for UAVs, investigation of barcode localization and detection algorithms for automatic inventory.
- 2015-2018 Software Engineer & System Administrator (20%) Accelerom AG
- 2013-2014 Research Assistant (Civil service) CARD, University Hospital Balgrist
Worked on segmentation algorithms for computer-assisted surgical planning
- 2013 Research Assistant (Civil service) Laboratory for Orthopaedic Biomechanics
Extended and adapted a microscope control software which contributed to [1]
- 2004-2008 Electronics Engineer Apprentice Hch. Kündig & Cie. AG

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.