

Thomas J. Stastny

PH.D CANDIDATE · RESEARCH ASSISTANT

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Autonomous Systems Lab

ETH Zürich, LEE J 314, Leonhardstrasse 21

8092 Zürich, Switzerland

Education

Swiss Federal Institute of Technology (ETH) Zürich

Zürich, Switzerland

PH.D IN ROBOTICS

Expected 2018

- Research focus: local perception, planning, and control for small fixed-wing UAVs

University of Kansas

Lawrence, KS, USA

M.S. WITH HONORS IN AEROSPACE ENGINEERING

2012 - 2014

- Thesis: Collision and Obstacle Avoidance for Fixed-wing UAVs using Morphing Potential Field Navigation with Robust and Predictive Control
- GPA: 4.0/4.0

Delft University of Technology (TU Delft)

Delft, Netherlands

SEMESTER ABROAD

Spring 2012

- Coursework in Systems & Control and Aerospace Engr. MSc Programs.

University of Kansas

Lawrence, KS, USA

B.S. IN AEROSPACE ENGINEERING

2008 - 2012

- GPA: 3.7/4.0

Experience

Autonomous Systems Lab, ETH Zürich

Zürich, Switzerland

RESEARCH ASSISTANT

2014 - Present

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- Platform specific integration within SHERPA Delegation Framework: C++/ROS based framework for task allocation among the multi-robotic SHERPA team.

Center for Remote Sensing of Ice Sheets (CReSIS), University of Kansas

Lawrence, KS, USA

RESEARCH ASSISTANT

2012 - 2014

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Automatic Flight Systems Group, University of Kansas

Lawrence, KS, USA

UNDERGRADUATE RESEARCH ASSISTANT

2011

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Aerospace Adaptive Structures and Materials Laboratory, University of Kansas

Lawrence, KS, USA

UNDERGRADUATE RESEARCH ASSISTANT

2008 - 2009

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Skills

Robotics State estimation, system identification/modeling, control theory/design, and path planning for unmanned aerial systems. Flight instrumentation experience including avionics and sensors. **Basic** knowledge of electronic components and circuits, soldering, and crimping techniques. **Basic** knowledge of structural design/fabrication. **Radio** controlled piloting experience on small fixed-wing platforms.

Software MATLAB/Simulink, MSC Nastran/Patran (Finite Element Analysis), Unigraphics NX (CAD), National Instruments LabVIEW, DARC Corp Advanced Aircraft Analysis (AAA), LaTeX, MS Office, Gimp (open-source graphics editor), Inkscape (open-source graphics editor), Ubuntu(Linux)/Mac/Windows Operating Systems

Programming C/C++, Python (limited), Robotic Operating System (ROS), Open-source software management with version control (Git), microcontroller programming (ARM), HTML

Honors & Affiliations

2014	Awarded United States Department of Defense Antarctica Service Medal
2010 - 2014	Sigma Gamma Tau, National Aerospace Honors Society
2012 - 2013	C&C Chaffee Engineering School Scholarship
2012	Univserity of Kansas Aerospace Undergraduate Researcher Award