Thomas J. **Stastny**

Ph.D Candidate · Research Assistant

Autonomous Systems Lab, ETH Zürich
Leonhardstrasse 21, LEE J 314
8092 Zürich, Switzerland
thomas.stastny@mavt.ethz.ch
(+41) 79 883 7765

Academic History

Swiss Federal Institute of Technology (ETH Zürich)
Zürich, Switzerland
Ph.D in Robotics
Expected 2018

University of Kansas
Lawrence, KS, USA
M.S. with Honors in Aerospace Engineering
2012 - 2014

Delft University of Technology
Delft, Netherlands
Semester Abroad
Spring 2012

University of Kansas
Lawrence, KS, USA
B.S. in Aerospace Engineering
2008 - 2012

Professional Skills

Robotics Flight instrumentation – avionics and senors. Basics of electronic components, circuits, soldering, crimping techniques. Basics of structural design/fabrication. Radio controlled piloting experience on small fixed-wing platforms.

Software MATLAB/Simulink, MSC Nastran/Patran (Finite Element Analysis), National Instruments LabVIEW, Unigraphics NX (CAD), Linux / Mac / Windows OS

Programming C/C++, Python (limited), Robotic Operating System (ROS), version control (Git), microcontroller programming (ARM), HTML

Honors & Affiliations

Awarded United States Department of Defense Antarctica Service Medal *(2014)*

Sigma Gamma Tau, National Aerospace Honors Society *(2010 - 2014)*

C&C Chaffee Engineering School Scholarship *(2012 - 2013)*

Univserity of Kansas Aerospace Undergraduate Researcher Award *(2012)*

Research Positions

Autonomous Systems Lab, ETH Zürich *2014 - Present*
Zürich, Switzerland
Research Assistant

Center for Remote Sensing of Ice Sheets (CReSIS), University of Kansas *2012 - 2014*
Lawrence, KS, USA
Research Assistant

Autonomous Flight Systems Group, University of Kansas *2011*
Lawrence, KS, USA
Undergraduate Research Assistant

Aerospace Adaptive Structures and Materials Laboratory, University of Kansas *2008 - 2009*
Lawrence, KS, USA
Undergraduate Research Assistant

Research Projects

SolAIR: Solar-powered Automated Aerial Imaging and Reconnaissance using Infrared Cameras *2016 - Present*
Supported by Armasuisse Science & Technology Center

Adventura AtlantikSolar@Brazil *2015*
Supported by Swissnex Brazil, Swissando, and ETH Global
http://www.swissnexbrazil.org/atlantiksolar/

AtlantikSolar: A UAV for the first-ever autonomous solar-powered crossing of the Atlantic Ocean *2014 - Present*
Supported by private investors and internal laboratory budget
http://www.atlantiksolar.ethz.ch/

SHERPA: Smart collaboration between Humans and ground-aErial Robots for imProving rescuing activities in Alpine environments *2014 - Present*
Supported by the European Commission under the 7th European Framework Programme (#600958)
http://www.sherpa-project.eu/

ICARUS: Robotic Search and Rescue *2014 - 2015*
Supported by the European Commission under the 7th European Framework Programme (#285417)
http://www.fp7-icarus.eu/

Multi-Agent Airborne Laboratory for Cryospheric Remote Sensing *2014*
Supported by the Paul G. Allen Family Foundation

CReSIS: Center for Remote Sensing of Ice Sheets *2012 - 2014*
Supported by the National Science Foundation (NSF) under grant ANT-0424589
https://www.cresis.ku.edu/

Publications

Published work available at: https://scholar.google.com/citations?user=R5Fs1A4AAAAJ&hl=en

References available upon request.