Thomas J. **Stastny**

Ph.D Candidate · Research Assistant

Autonomous Systems Lab, ETH Zürich
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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

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/

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)*

Publications

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

References available upon request.