# Thomas J. **Stastny**

Ph.D Candidate · Research Assistant

Autonomous Systems Lab, ETH Zürich Leonhardstrasse 21, LEE J 314 8092 Zürich, Switzerland

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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

## 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 fixedwing 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

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

2014 - Present

2014 - 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

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

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**

References available upon request.