Carson Vogt

address 7/9 Slateford Road, EH11 1PA, Edinburgh, UK   **e-mail** crvogt26@gmail.com
skype carson.vogt   **phone** +44 7713 666479

EDUCATION

PhD, Electrical Engineering (focus on light fields), Heriot-Watt University, December 2018
MSc by Research, Robotics, University of Edinburgh, 2015
BSc, Aerospace Engineering, University of Southern California, 2014

EXPERIENCE

Naval Research Enterprise Internship Program (NREIP)   June – August 2013, June – August 2014
Naval Postgraduate School, Monterey, CA
- Worked on embedded, open source systems for UAVs to be used in swarm manoeuvres.

The Systems Integration Organization (SI Org)   June 2012 – August 2012
King of Prussia, PA
- Part of the Aerospace and Integration team, uncovered and deciphered MATLAB tools and learned to diagnose satellite issues.

Vandenberg Air Force Base   June 2011 – December 2011
Lompoc, CA
- Characterized ground-based sensors for Space Situational Awareness group.
- Began development of a program to make observation abilities apparent to new users.

Information Sciences Institute (ISI)   May 2009 – April 2012
Space Engineering Research Center, Marina del Rey
- Was part of the team that helped to create the Caerus portion of the Mayflower-Caerus 3U CubeSat and the Aeneas CubeSat.
- Team lead for LEAPFROG lunar lander avionics group.

TECHNICAL SKILLS

- Proficient in: C++, light fields, SolidWorks (certified), electronics (including soldering), genetic algorithms, Gaussian processes, microcontrollers, Excel
- Working Knowledge of: ROS, SLAM (PTAM and ORB-SLAM2), XFoil, composites, MATLAB, Python, ActionScript, MXML, general machine learning, computer vision

POSTGRADUATE RESEARCH

MSc Research
- Built an autonomous powered glider to take atmospheric data for wind farm optimization.
- Utilized Gaussian processes to predict local, small-scale weather patterns.
- Designed to fill in for relatively low resolution satellite and weather station data.

PhD Research
- Ongoing light field research for potential scientific applications.
- Utilizing novel data collection and interpolation methods and analyzing potential parameterizations.

GENERAL INTERESTS

- Avid drone racer and exploratory drone creator/operator, both fixed wing and multirotor.
- Constructed an automated greenhouse indoors using RPI and Arduino.
- Dedicated off-roader, expeditioner, and overlander, be it by Jeep or fat bike.
- I also enjoy riding horses/polo, music (pianist for 20 years), SCUBA certified, AutoX, and more.