JACOB REGENSTEIN

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jregenstein

Skills

SOFTWARE

Java
Python
C++
ROS
MATLAB

AEROMECHANICAL

Solidworks
Onshape
Mill and Lathe
Sheet metal
3D Printing
Xfoil
Comsol

PILOTING

Private Pilot Airplane
Private Pilot Glider
Part 107 Commercial UAS
FPV racing and safety piloting

Engineer seeking work in U.A.V. prototyping. Experienced with mechanical design, fabrication, rapid prototyping, programming, and U.A.V. flight testing of fixed wing and multirotor aircraft.

Education

Brandeis University — Dec. 2018
B.S. Physics and Computer Science

Olin College of Engineering — Dec. 2018
Certificate of Engineering

Employment

AeroVironment — Simi Valley, CA
Engineering Intern — May 2018 to Aug. 2018

Worked on high altitude glider program
Owned development of SITL tools
Owned long range RC/telemetry setup, integration, and testing
Investigated parachute failures and significantly improved reliability
Integrated electronics in airframe

Scientific Systems — Woburn, MA
UAV Engineer and Pilot — Aug. 2016 to Feb. 2018

Pilot for flight tests and DARPA competitions
Designed airframe components
Wrote flight code

Olin Robolab — Olin College
Research Assistant — Apr. 2016 to Aug. 2016

Primary safety pilot for fixed wing and multirotor unmanned aircraft
Developed safety procedures
Led numerous aircraft builds
Programmed autonomous aircraft

Brandeis High Energy Physics Lab — Brandeis University
Research Assistant — Apr. 2015 to Apr. 2016

Worked on Large Hadron Collider ATLAS detector alignment system components
Created calibration algorithms for contact CCDs
Investigated illumination methods for contact CCDs

Activities

Olin DBF Team · Leadership — Aug. 2017 to Dec. 2018
Founding member of Olin's Design Build Fly A.I.A.A. Competition team
Flight test lead for 2018 competition
Aerodynamics lead for 2019 competition

Brandeis Aviation Club · Co-Founder, President — Aug. 2015 to May 2016

Publications

Journal of Field Robotics — Sept. 2017
R-ADVANCE: Rapid Adaptive Prediction for Vision-based Autonomous Navigation, Control, and Evasion

http://onlinelibrary.wiley.com/doi/10.1002/rob.21744/full/