JACOB REGENSTEIN

✉ jacobregenstein@gmail.com
🌐 jacob.flights
📞 (415)754-3597
📍 Waltham, MA
⌗ jregenstein

Skills

PROGRAMMING

Java
Python
C++
ROS
Scheme

MECHANICAL ENGINEERING

Solidworks
Onshape
Mill and Lathe
Sheet metal
3D Printing

FLYING

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

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

Education

Brandeis University
B.S. Physics and Computer Science
December 2018 (expected)

Olin College of Engineering
Certificate of Engineering
December 2018 (expected)

Employment

Scientific Systems
UAV Engineer and Pilot
Woburn, MA
Aug 2016 to Current

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

Olin Robolab
Research Assistant
Olin College
Apr 2016 to Aug 2016

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

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

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

Activities

Olin Aero Club · Member   Current
Responsible for aerodynamics evaluation and empennage design for our entry in A.I.A.A.'s Design Build Fly competition

Brandeis Aviation Club · Co-Founder, President

Drone Racing and RC airplane flying · Hobby   Current
I've been flying RC planes since I was young, FPV racing since spring 2015

Publications

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

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