

JACOB REGENSTEIN

✉ jacobregenstein@gmail.com

🌐 jacob.flights

☎ (415)754-3597

📍 Waltham, MA

in /in/jacobregenstein

🔗 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

Aug 2017 to 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

Aug 2015 to May 2016

Drone Racing and RC airplane flying · Hobby

Jan 2004 to 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/>