



Tiger Sky Jewell-Alibhai

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Skills

Programming ///

HTML • CSS • Bootstrap
Matlab • ROS • Gazebo
Python • Kotlin
Github • Git
Javascript
Java

/// Languages

Mandarin
Portuguese
(English)

/// Power Tools

Basic Woodworking Tools
3D Printer • Laser Cutter • Vinyl Cutter
Mill • Shopbot CNC

Software ///

SolidWorks • Onshape • Fusion 360
Photoshop • Illustrator
Davinci Resolve • Hitfilm • Premiere Pro
Office Suite • G Suite • JetBrains Suite
Betaflight • BLHeli
Wix • Wordpress

/// Other/General

Team Leadership and Management
Logo, Web, Apparel, & Graphic Design
Video & Movie Editing, Cinematography
Quad/Fixed Wing Drone Pilot (Part 107)

Education

Olin College of Engineering ///

2019-May 2023

Needham, MA

BS in Mechanical Engineering with focus in Robotics
Taken introductory courses in Mechanical, ECE, Programming, Lean-Agile Project Design, and Applied Linear Algebra and Multivar Calculus
Planning on taking courses this fall in Software Design, ODEs and Dynamic Systems, and Mechanical Solids and Structures

Durham Academy HS ///

2015-May 2019

Durham, NC

Recipient of Cole Award for Excellence in Physical Sciences (10th grade)
Recipient of Senior Science Award

Experiences

Drones and UAVs ///

2017-Present

- FAA Part 107 Commercial License Holder
- Built custom Quadcopters and Fixed Wings
- Project in Oregon to map historical sites using ground and UAV based sensors
- Projects in Namibia/China to monitor endangered wildlife using UAVs to ID animals from their footprints
- Various photography and cinematography jobs using UAVs

Intern at Practical Scientific Solutions ///

2020

- Iteration from prototype to final production design
- Experience with solidworks and materials selection

FIRST Robotics ///

2016-2019

- Team Founder and Captain, Dean's List Semifinalist
- Competitor at Houston World Championships 2017 & 18
- Experience with power tools, Onshape, and Google Sheets

Activities

Piano: Jazz & Rock ///

- Member of Durham Academy's In The Pocket Ensemble, recorded album

/// Olin DBF Team

Structures Lead on Olin's AIAA Design Build Fly Project Team. Design, testing, and flying of R/C planes for specific competitions. Experience with structural and electrical aspects.

UAV Radio Systems ///

Olin sponsored project to explore the radio control and FPV systems used in UAVs, and using a custom built racing drone as a testbed for different systems.

Check out my website for additional information about these projects and more:

tigeysky.com

