

# Tiger Sky Jewell-Alibhai



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**Location:** Durham, NC

## Skills

### Programming:

HTML, CSS, Bootstrap  
MATLAB, ROS, Gazebo  
Java, Kotlin  
Github, Git  
Javascript, Python

### Power Tools:

Basic Wood Tools  
3D Printer, Laser Cutter  
Vinyl Cutter  
Mill, Shopbot CNC  
Soldering

### Software:

SolidWorks, Onshape,  
Fusion 360, GrabCAD  
SimScale FEA/CFD, ANSYS  
Photoshop, Illustrator  
Office, JetBrains Suite  
Wix, Wordpress

### Languages:

Mandarin, Portuguese

### Other:

Management, Leadership  
Web and Graphic Design  
Video and Movie Editing  
Licensed Drone Pilot (107)



tigeysky.com

*Mechatronics Engineer, maker, and creator with experience designing, building, and flying UAVs. Looking for positions in mechanical and aerospace engineering.*

## Education

### Olin College of Engineering Needham MA

**May 2023**

Bachelor of Science in Engineering, Concentration Mechatronics. Introductory courses in Mechanical, ECE, Programming, Lean-Agile Project Design, Applied Linear Algebra and Multivar Calculus, Software Design, ODEs and Dynamic Systems, and Mechanical Solids and Structures. Current cumulative GPA is 4.0

### Durham Academy HS Durham NC

**2015 - May 2019**

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

## Experiences

### UAV Consultant and Pilot for Wildlife Monitoring

**2017 - 2019**

Projects in Namibia, China, Portugal, and the US to monitor endangered wildlife using UAVs to ID animals from their footprints. Operated in tough conditions and advised researchers on specifications of UAVs to gain more effective data. Collaborated with Parrot Sensefly.

### Intern at Practical Scientific Solutions

**May 2020 - Aug 2020**

Iteration from prototype to final production design. Technical projects involving rapid design and Solidworks CAD skills, and research projects requiring creativity and project management.

### Researcher and UAV Pilot for Geophysics Project

**May 2018 - Jun 2018**

Research project to map several areas of land in eastern Oregon. Upgraded DJI M600 with Micasense RedEdge multispectral camera and Zenmuse XT. Used Pix4D photogrammetry software to generate accurate maps of areas of interest. Gained experience with ground based Magnetometers and EM devices.

### 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 for analytics.

## Projects and Activities

### Olin DBF Team

**2019 - Present**

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 Design, Racing, and Cinematography

**2015 - Present**

UAV Hobbyist with experience in all aspects of designing, budgeting, building, and flying multirotor and fixed wing UAVs. Various UAV cinematography jobs, and participated in the 2020 MultiGP Sport Class Championship.

### UAV Radio Systems

**Jan 2020 - May 2020**

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.