

# Tiger Sky Jewell-Alibhai



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## Skills

### Programming:

HTML, CSS, Bootstrap  
MATLAB, ROS, Gazebo  
Java, Kotlin  
Github, Git, Javascript  
Python (LinkedIn cert)

### Power Tools:

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

### Software:

SolidWorks, Onshape  
Fusion 360, GrabCAD  
SimScale FEA/CFD  
Photoshop, Illustrator  
Office, JetBrains Suite  
Wix, Wordpress  
STK (L1 Certified)  
Design Expert 13

### Languages:

Mandarin, Portuguese

### Other:

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

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

## Education

### Olin College of Engineering Needham MA

**Aug 2019 - May 2023**

- Bachelor of Science in Engineering, Concentration Robotics.
- Recipient of 4-year, 50% Franklin W. Olin College Merit Scholarship
- Courses in Mechanical Engineering, 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 3.96

### Durham Academy HS Durham NC

**Aug 2015 - May 2019**

- Received Cole Award for Excellence in Physical Sciences (10th grade)
- Received Senior Science Award

## Experiences

### Olin Satellite Group - Mechanical Engineer

**May 2021 - Aug 2021**

- Designed structural components in Solidworks for cross-university small satellite project involving the launch of three 3U satellites to collect atmospheric oxygen readings and demonstrate formation flying behaviour.
- Oversaw systems integration and prepared designs for manufacturing.

### Practical Scientific Solutions - Mechanical Engineering Intern **May 2020 - Aug 2020**

- Iterated from prototype to final production design of ruggedized light emitting box.
- Designed a UAV protection system in Solidworks involving landing gear and prop guards.
- Lead and completed research projects into the use of radio and inertial tracking systems and the cost, technical, and logistical aspects of launching a cubesat.

### Wildlife Monitoring - UAV Consultant and Pilot

**2017 - 2019**

- Monitored endangered wildlife using UAVs to ID animals from their footprints over several projects in Namibia, China, Portugal, and the US.
- Operated in tough conditions and advised researchers on specifications of UAVs to gain more effective data.
- Collaborated with Parrot Sensefly (UAV company).

### Geophysics Project - Researcher and UAV Pilot

**May 2018 - Jun 2018**

- Involved in 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.

## Projects and Activities

### Olin Design Build Fly Team - Project Manager

**2019 - Present**

- Project manager and former structures lead on Olin's AIAA Design Build Fly Project Team.
- Designing, testing, and flying of R/C planes for specific competitions.
- Experience with structural, electrical, and systems 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, participated in the 2020 MultiGP Sport Class Championship.

### 1/3 Scale Mini FRC Robot

**Dec 2020 - Feb 2021**

- Designed and built modular 3D printed robot with holonomic drive to compete in a 1/3 scale version of the First Robotics Competition.



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