



M.A.S.

MUTED AERIAL SYSTEMS

TYLER VARTABEDIAN

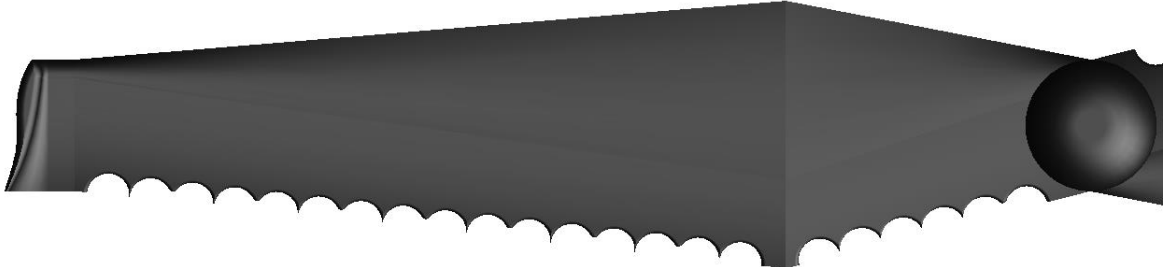
The Problem

*“Class C1 and C2 UAS of unmanned aircraft systems shall have a sound power level not exceeding [80-90] dB(A) determined in full power and stationary conditions using the basic noise emission standard EN ISO 3744:2010”**



*<https://www.nodcampaign.org/eu/eu-petition-against-noise-restriction?l=en&f=2> ⁽⁵⁾

Our Solution

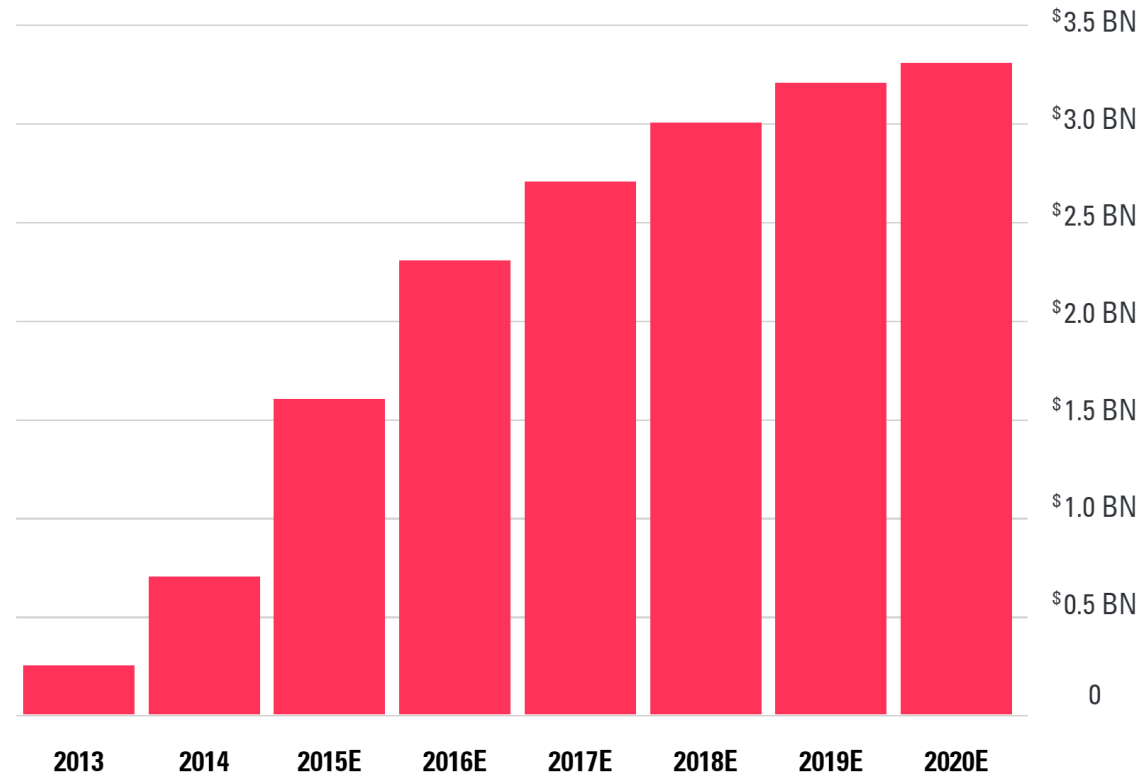


Our Solution



Market Opportunity

Global Sales Set to Increase *
Retail/Consumer Drone Market



*Goldman Sachs <https://www.goldmansachs.com/insights/technology-driving-innovation/drones/> (3)

Market Opportunity

316,000

Number of Commercial FAA Registered Drones Currently in the United States



Business Plan

B2B

- Technology sold directly to manufacturers for seamless integration
- Commercial and Private Focus
- Examples – DJI, GoPro, AeroVironment, Parrot, GeniusNY
- Future Sales to Government Entities and B2C



Unmanned Aircraft Systems West

InterDrone

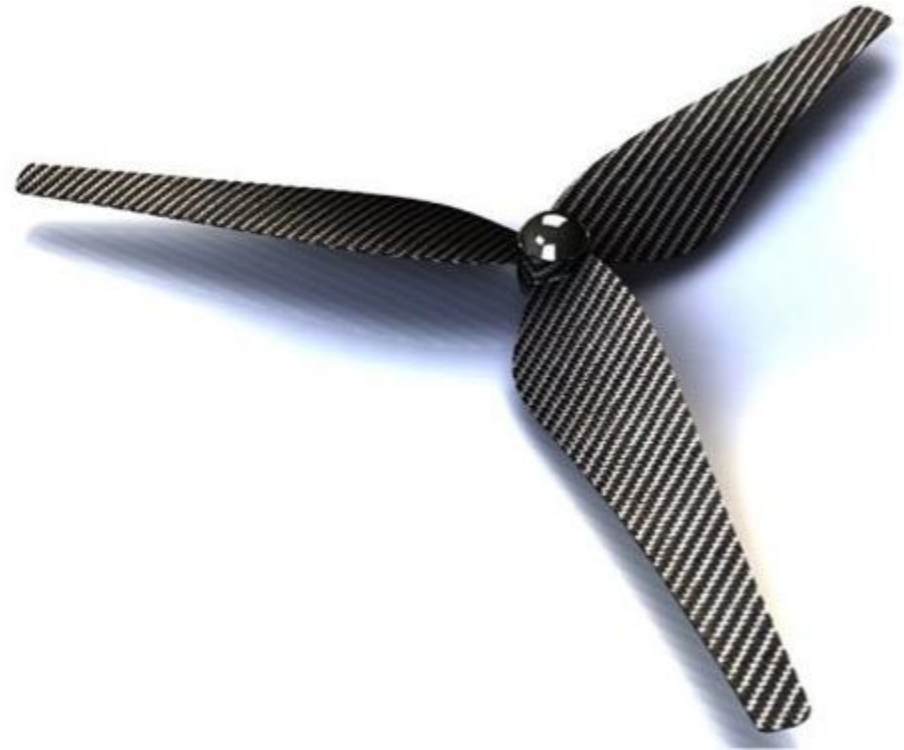


AMERICAN AEROSPACE & DEFENSE SUMMIT 2019

Competition

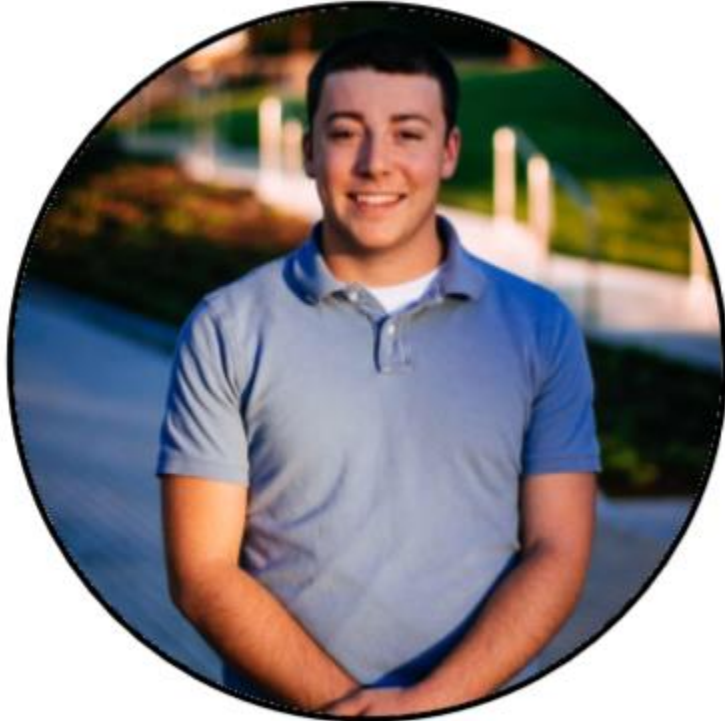


DJI Mavic 2 Series Low Noise Propellers - \$15



Carbon Fiber Propellers - \$20+





Tyler Vartabedian

Founder

SU Aerospace Engineering Class of 2019

Extensive Drone Research and Design Experience

Advisors:

John Liddy – Liddy Enterprises and Syracuse University

Dr. Mark Glauser – Syracuse University

Linda Dickerson Hartsock – SU Blackstone Launchpad

Syracuse University

Blackstone LaunchPad



**SYRACUSE
UNIVERSITY
ENGINEERING
& COMPUTER
SCIENCE**

Future Steps

	2019					2020					2021						
Business Plan																Planned Main Task	
Financials																Planned Sub Task	
Marketing Plan																	
Other																	
Team Expansion																	
Product Development																	
Component Development																	
Prototype 1																	
Prototype 2																	
Final Product																	
Testing																	
Patent Process																	
Marketing and Sales																	
Marketing and Establishing Name																	
Funding																	
Initial Sales																	





- **Rapidly Growing Industry on the Verge of Mass Commercialization**
- **First to Market with Universal Noise Dampening Propellers and Active Noise Cancellation Technology**
- **Combats Future Regulations**

Contact Us – tmvartab@syr.edu – (603)-233-9669

Sources

1. <https://www.fromthegravevine.com/innovation/companies-cutting-edge-drone-delivery>
2. <https://www.goldmansachs.com/insights/technology-driving-innovation/drones/>
3. <https://store.dji.com/product/mavic-low-noise-quick-release-props-platinum?vid=32781>
4. <https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20170005870.pdf>
5. <https://www.noddecampaign.org/eu/eu-petition-against-noise-restriction?l=en&f=2>
6. <https://patents.google.com/patent/US5182774A/en?q=~patent%2fUS5182774A>
7. <https://www.auvsi.org/>
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Prototyping Facilities



Skytop Turbulence Laboratories



