

Engineered Coating for High Performance and Low-Noise Urban Air Mobility Vehicle Rotors

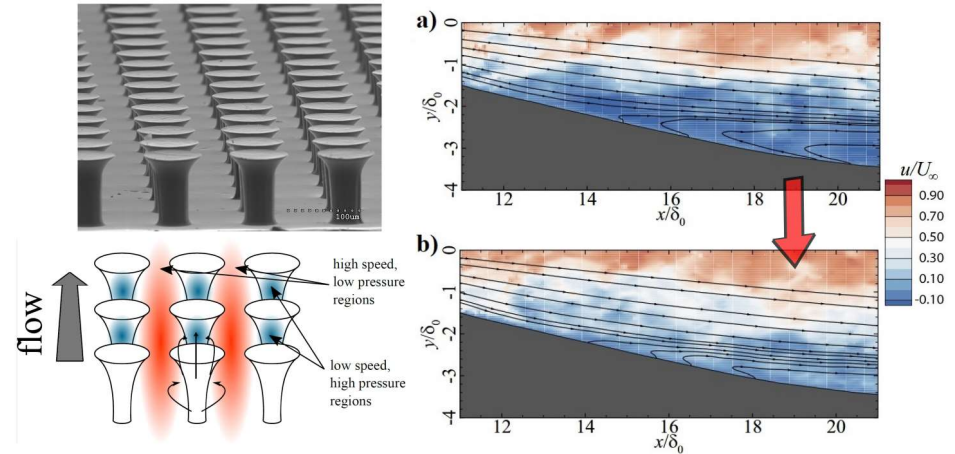


Contact Information Description

101 S Cherry-Grove Ave
Annapolis, MD

POC: Matthew Hamilton
CEO, Flow Raider LLC
matthew.hamilton@flowraider.net
Cell: 443-994-3498

Picture (and more Capability Description)



Description in Bullet Format (Relate to Requirement(s) & Heilmeier Questions)

- Passive flow control technology for aerodynamic performance enhancement and noise suppression.
- The coating's ability to mitigate flow separation via passive means will improve the propulsion system's energy efficiency.
- This technology is applied as a film or via injection molding with micro-textured surface on the propellers.
- Engineered coating is an early-stage technology that is potentially transformative and disruptive in aerial transportation.

Requirement(s) Benefits, Money Saved, Eliminates What?

- **Increase the aerodynamic performance**
- **Noise reduction** for the UAM vehicles
- **Low manufacturing cost** that enables large-scale adaptation.
- Seeking **Partners** and **Funding**

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| Airspace Management <input type="checkbox"/> | Command & Control <input type="checkbox"/> | Comms <input type="checkbox"/> | Power & Energy Storage <input type="checkbox"/> | Propulsion <input checked="" type="checkbox"/> | Sensors & Awareness <input type="checkbox"/> | Other <input type="checkbox"/> |
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