

Adaptive Corporation : Additive Propeller Manufacturing (APM)

Contact Information Description

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Process to 3D Print UAV Replacement Propellers in the field

- Reduce UAV downtime
- Reduce spare parts deployed
- Propellers and Carbon Fiber
- Propellers are strong and functional
- Suitable for temporary replacement until OEM part can be sourced and delivered to field
- Tested to meet performance requirements
- Initial project focus 18" and 24" propellers
- Propellers and Carbon Fiber Composite, with Continuous Carbon Fiber material for added support and strength
- Can be 3D printed in hours, not days
- Project provides a digitally signed, physically validated file



APM Solution Footprint and Portability

- 3D Printer footprint suitable for Desktop
- 3D Printer is highly portable
- 3D Printer can be delivered with "tactical case" for field transport
- 3D Printer operates on AC or DC power
- System currently in use by other DoD branches for other field applications
 - Army SOCOM
 - Navy USAF, Hill AFB, Advanced Composites Office
 - Marines USMC, Amphibious Vehicle Test Branch
 - Air Force

Reduce MRO Footprint and Cost

- Quick deployment to remote areas, minimize spare parts
- Fast deployment
- Standard parts, locked print files in predetermined orientation
- Secured files tested and certified to specific part numbers
- Print files cannot be modified or altered in the field
- Simple, unattended process to create functional parts in the field

Airspace Management	Command & Control	Comms	Power & Energy Storage	Propulsion	Sensors & Awareness	Other
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