Nov 7, 2023

To:
Scott Miller
Associate Dean for Industry Partnerships and Outreach
Ohio University
Russ College of Engineering and Technology

Subject: **Digital Engineering and Digital Twin Development for Advanced Air Mobility Vehicles**

I am pleased to support the Ohio University/UDRI PDAC FY2025 request for Digital Engineering and Digital Twin Development for Advanced Air Mobility Vehicles**.**

At Joby Aviation, we are developing best in class Urban Air Mobility (UAM) products. The UAM market has unique requirements, which are different from commercial aviation:

1. Light weight is top priority, to achieve maximum range.
2. 10-100x higher production volume needed.
3. Total cost of ownership of our aircraft is key to our success.

As consumers of carbon fiber composites for our eVTOL vehicle, we recognize the need for reduced weight, manufacturing cost, and faster cycle time processes. Furthermore, coupling those benefits with automation of composite manufacturing integrated with digital Engineering and digital twin will enable faster adoption of composites in our industry and will reduce costs and process variability.

My team and I are very interested in following the progress of OU/UDRI regarding digital engineering and digital twin. We will be available to advise you on design requirements, trade study input, as well as support specific needs in process development and transition to industry.

This manufacturing technology shows promise as a novel manufacturing process that could help us reduce costs and improve quality control. Joby strongly supports the requirement for project engineering and workforce development to be funded by the proposed project.

We will continue to follow your process development in the future.

Best regards,

John Gerriguis
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