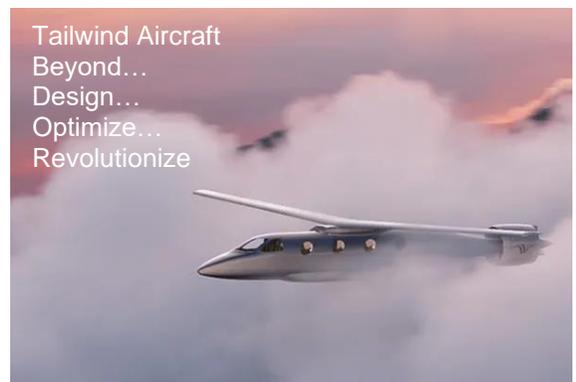




Ampaire Inc, headquartered in Hawthorne, California, is a pioneering developer of hybrid electric aircraft. The surge in aircraft demand, combined with a concurrent increase in aviation-related emissions, underscores the urgent need for innovative solutions. The continuous growth in emissions from aviation necessitates transformative actions. The transition to electric or hybrid electric aircraft represents a groundbreaking approach to mitigate this issue, fostering sustainability and energy efficiency within the aviation industry.

Ampaire has embarked on a sustainable aviation journey with immediate applications leveraging existing technology to retrofit conventional aircraft into hybrid electric configurations. Notably, Ampaire has achieved significant milestones by successfully conducting experimental test flights of hybrid electric versions of the Cessna 337 Skymaster and Cessna 208B Caravan. Remarkably, Ampaire currently holds the record for the longest distance flown by a hybrid electric aircraft, showcasing the viability of this technology in the real world. The learning and milestones achieved are the building blocks of Ampaire's future sustainable aviation solutions.

In this presentation, Ampaire will provide an insightful overview of its hybrid electric powertrain technology. It will elucidate the methodology for implementing this scalable concept into various aircraft platforms. Furthermore, Ampaire will explore the diverse applications of this technology across different aircraft models, highlighting its versatility and adaptability within the aviation sector.



Kamran Akther is a Mechanical Design Engineer at Ampaire, specializing in the structural design and development of hybrid electric platforms for general aviation aircraft. He has also been involved in the flight test program of hybrid electric airplanes as a Flight Test Engineer.

Prior to embarking on his career in the aviation industry, he gained valuable experience in the heavy machinery and electric vehicle sectors. Kamran earned his bachelor's degree in mechanical engineering and subsequently pursued a master's degree in aerospace and mechanical engineering with a specialization in Computational Fluid Dynamics (CFD) and solid mechanics. Karman participated in several design events including SAE India Baja Racing Circuit, SAE International Aero Design, and SpaceX Hyperloop Pod Design.

Kamran is very passionate about aviation and sustainable energy. He is an avid student pilot and also enjoys radio-controlled flying.

AIAA – ASME ZOOM Meeting
Thursday, January 11, 2024 at 0600 PM – 0730 PM PST

Click the following link to attend this exciting ZOOM Meeting.

<https://aiaa.zoom.us/meeting/register/tZwrcOqqqT4qHNQJUw55EQ5AiOMcT7ueNy11>

Meeting ID: 886 7327 5060

Dial In: 877 853 5257 US Toll-free, 888 475 4499 US Toll-free

NOTE: In the past, we have had technical difficulties with the audio so if you are unable to join the meeting via your computer, please utilize the "dial in".