



ITEC+2022

Dr. Pat Anderson

*Co-Founder and Chief
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VerdeGo Aero, Inc.*



Dr. Anderson created the technology that enables the Urban Air Mobility future. He is Director of the Eagle Flight Research Center at Embry-Riddle Aeronautical University specializing in new vehicle concepts, advanced flight controls, and novel certification strategies. He led the world's first piston gas/electric hybrid aircraft program and was recognized as Researcher of the Year. Dr. Anderson holds an airline transport pilot rating, is a flight Instructor, and is also rated as an airframe and power plant mechanic.

Hybrid Electric Powerplants

The electric aircraft market needs powerplants that are efficient, high performance, and compatible with both current and future infrastructure. VerdeGo built its first "iron bird" powertrain around an aviation diesel engine to leverage the ultra-high efficiency of diesel cycle engines and compatibility with global jet fuel infrastructure.

Liquid fuels are 20X more energy dense than batteries resulting in transformational capability improvements. Electric motors enable aircraft to be designed to be more efficient and to be capable of new missions by merging thrust, attitude control, and active control of aerodynamics. Hybrid-electric powerplants emerged as the link between these two capabilities, to make electrification practical.