Electric Flight and On-Demand Aviation

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My research focus is aircraft design

- Multidisciplinary Design Optimization (MDO)
- Multi-objective optimization and trade space exploration methods
- Aerodynamic, propulsion, and performance models for aircraft design
- Analysis of technologies, missions, markets, and economics of innovative aircraft concepts
- Current interest is electric propulsion as an enabler for on-demand aviation
 - Battery, motor, and electrical system modeling
 - "Drone" package delivery
 - Autonomous "air taxis": Google or Uber self-flying aircraft?
 - Personal VTOL air vehicles
 - Thin-haul aviation for small rural markets





