

Contact

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Top Skills

Matlab
C++
Robotics

Publications

Visual servoing for an autonomous rendezvous and capture system

Water Calorimetry Using Heat Flux Generation Methods

Development of a Fuzzy System for Jet Engine Diagnostics and Comparison with a Bayesian Diagnostic System

A nonlinear inverse model for airborne wind energy system analysis, control, and design optimization

Predictive vision from stereo video: robust object detection for autonomous navigation using the Unscented Kalman Filter on streaming stereo images

Patents

Hybrid rolling bridle system for distributing load while permitting freedom of rotation

Tethered vehicle control and tracking system

Variable cross section tether

Tri-rotor aircraft capable of vertical takeoff and landing and transitioning to forward flight

Mark Aull

Chief Science Officer at Windlift, PhD from University of Cincinnati
Raleigh-Durham-Chapel Hill Area

Summary

Chief Science Officer at Windlift. Skilled in modeling and simulation, controls, and programming. Strong research professional with a Doctor of Philosophy - PhD in Aerospace Engineering focused on controls and dynamics related Airborne Wind Energy from the University of Cincinnati.

Experience

Windlift

11 years 11 months

Chief Science Officer

April 2020 - Present (5 years 3 months)

- Leads modeling, simulation, and controls group
- Developed AWE performance analysis and system optimization tool

Lead Aerospace Engineer

August 2013 - April 2020 (6 years 9 months)

- Responsible for developing simulation environment
- Responsible for developing aircraft controls

NASA Langley Research Center

Engineer Intern

2011 - 2013 (2 years)

Hampton, Virginia, United States

University of Cincinnati

Teaching Assistant

2009 - 2010 (1 year)

Cincinnati, Ohio, United States

Wright Patterson Air Force Base

Engineer Intern

April 2003 - September 2006 (3 years 6 months)

Dayton, Ohio, United States

Education

University of Cincinnati

Doctor of Philosophy - PhD, Aerospace, Aeronautical and Astronautical Engineering · (2010 - 2020)

University of Cincinnati

Master of Science - MS, Aerospace Engineering · (2006 - 2010)

University of Cincinnati

Bachelor of Science - BS, Aerospace Engineering · (2001 - 2006)