

# Dwight Brillembourg

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## Education

### THE PENNSYLVANIA STATE UNIVERSITY

University Park, PA

#### College of Engineering

Expected Graduation: Summer 2013

*M.S. in Aerospace Engineering*

- *Cumulative GPA: 3.60*
- *Experience: Stability and Control of Helicopters, Structural Dynamics and Vibration, Numerical Methods in Fluid Dynamics, Wind Farm Engineering*
- *Thesis Topic: Wind Turbines under Atmospheric Icing Conditions - Ice Accretion Modeling, Aerodynamics, and Control Strategies for Mitigating Performance Degradation*
  - *Presented: American Institute of Aeronautics and Astronautics, Spring 2012*

#### College of Engineering

Graduation: Spring 2011

*B.S. in Aerospace Engineering, concentration in Aeronautics*

- *Cumulative GPA: 3.10*
- *Experience: Flight Testing, Wind Tunnel Testing, Machine Shop, Flight Dynamics and Controls, Propulsion*
- *Researching the power output and efficiency of a newly patented Vertical Axis Wind Savonius Wind Turbine to determine whether it can be further developed in the Modern Wind Power Industry*
- *Performed flight tests on a Cessna 172R airplane including power required, stall speed, takeoff and landing distance, longitudinal stability and control, and propulsion*

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## Work Experience

### SIKORSKY AIRCRAFT CORPORATION

#### *Flight Test Engineering Intern*

*West Palm Beach, Fl May 2012 – August 2012*

- *Interned for the Canadian Maritime Helicopter Program with 20 hours of telemetry experience and 50+ hours of flight testing experience*
- *Processed and analyzed flight test data for the CH-148 Cyclone*

#### *Handling Qualities Engineering Intern*

*Fort Worth, TX May 2011 – August 2011*

- *Programmed a graphical user interface to allow users to help process and analyze data of Sikorsky Helicopters*
- *Developed an Excel spreadsheet that allows users to visualize and input Helicopter models for use in Sikorsky's helicopter simulator*

### AEROSPACE DEPARTMENT

University Park, PA

#### *Teaching/Research Assistant*

*May 2010 – Present*

- *Taught a writing intensive hands-on aerospace lab that introduced students to principles of beam bending, column buckling, beam vibrations, and modal testing.*
- *Worked on a team of seven in the design and construction of the Water Channel in the engineering building*

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## Other

- *President: Pi Lambda Phi Fraternity, Summer and Fall 2010*
- *Co-founder: University Student Launch Initiative, Fall 2009 and Spring 2010*
- *Active member: American Institute for Aeronautics and Astronautics, AIAA*
- *Awarded Paul Morrows Academic Scholarship from the Penn State College of Engineering*