JOSHUA LYLE DOWLER

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OBJECTIVE

Seeking a challenging aerospace focused career in an innovative engineering company

EDUCATION

The Pennsylvania State University

Master of Science in Aerospace Engineering

• Concentration in Applied Aerodynamics

Related Course Work

- Theory of Flight
- Fluid Mechanics
- V/STOL Aircraft
- Rotorcraft Dynamics
- Evolutionary Optimization Methods
- Composite Materials Processing

Harding University

Bachelor of Science in Mechanical Engineering

- Graduated Cum Laude
- Engineer In Training

Related Course Work

- Machine Design
- Control Systems 1
- Design with Finite Elements
- Mechanics of Materials

EXPERIENCE AND ACTIVITIES

Research Assistantship for Dr. Sven Schmitz

The Pennsylvania State University

• Developing the XTurb-PSU wind turbine design and analysis code

- Incorporating knowledge of evolutionary algorithms into wind turbine blade optimization
- Formulating a new stall delay model for more accurate blade loading calculations

Internship in Togo, West Africa

Summer 2009

May, 2011 - Present

University Park, PA

Harding University

- Eight week program participating in language learning, development projects, and cultural survey studies
- Lived in a remote village with a native family for four days to experience life as a Togolese

American Society of Mechanical Engineers (ASME) – Student member

American Helicopter Society (AHS) – Student member

American Institute of Aeronautics and Astronautics (AIAA) – Student member

Searcy, AR

GPA: 3.80/4.0

University Park, PA

Expected December 2012

May 2010 GPA: 3.66/4.0

Senior Design Project Leader

- Interdisciplinary group of engineering students integrating subsystem designs
- Group received the 2010 Donald W. Reynolds Governor's Cup Innovation Award
 - o Provided conceptual and technical knowledge to a business team in a statewide competition

Golden Key International Honour Society Member

• Awarded for being in the top 15% of my class at The Pennsylvania State University

Recipient of Chancellor's Scholarship

- Academic based award for half-tuition funding for eight semesters
- Continued requirement to maintain a GPA of 3.25 or higher

Dean's List

• Spring 2007, Fall 2007, Spring 2008, Fall 2008, Spring 2009, and Spring 2010

Harding University Honors College

- Requires a GPA of 3.5 in order to apply
- Able to participate in honors classes, acquiring skills in critical thinking in a small class environment

Co-Leader for a community service campaign to Silver Spring, MD

• Planned a week long campaign of 22 students, coordinating service events with local organizations

TNT Social Club

• Service project leader 2009-2010

SKILLS

Computer:

- SolidWorks, MATLAB, Cygwin, gnuplot, Microsoft Windows, Microsoft Office
- Experience with C++, Fortran, and MATLAB programming languages
- Wind Turbine Design Codes: WT_Perf, FAST, TurbSim, AirfoilPrep, XFOIL, RFOIL

Foreign Language:

German

- Completed four years of German during high school acquiring basic understanding of the language
- Beginner level reading, writing, and conversation skills

REFERENCES AVAILABLE UPON REQUEST