

NATHAN BODENSCHATZ

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EDUCATION

UNIVERSITY OF CINCINNATI - CINCINNATI, OH

Bachelor of Science in Aerospace Engineering

GPA: 3.55/4.00

Expected May 2014

PROFESSIONAL

EXPERIENCE

MODERN TECHNOLOGY SOLUTIONS, INC. – BEAVERCREAK, OH

Intelligence, Space and Information Solutions Intern

June 2012 – Present

- Programmed a code to implement Instrumentation Measurement Unit (IMU) device used to assist with GPS accuracy in satellites; combined IMU program with satellite error measurement program

GE AVIATION – EVENDALE, OH

Engineering Co-op

Mar. 2011 – Sept. 2011

Process Engineer

- Designed and planned engine part rework for development testing
- Modeled advanced 3-D drawings in Unigraphics; worked on complex engine parts (fan blades, rotor blades, etc.)
- Created product catalog for manufacturing shop and new employees; train new co-op employees

Production Control

- Communicated with customers to identify needs/concerns; worked to meet deadlines and uphold relationships

ACADEMIC RESEARCH UNIVERSITY OF CINCINNATI – CINCINNATI, OH

SIERRA (Surveillance for Intelligent Emergency Response Robot Aircraft) Project

Sept. 2010 – June 2012

- Work with a team to develop a wildfire response aircraft system to protect those putting their lives on the line
- Learned systems engineering approach, UAV systems, wildfire response tactics
- Participated in 2012 Dayton-Cincinnati Aerospace Sciences Symposium; presented on UAV certification process
- Website: <http://most-aero.uc.edu/projects/sierra-project>

TENDEK (Tensegrity-based Deployable Kite) Project

Sept. 2010 – June 2011

- Developed a tensegrity morphing kite to be launched by only one person from concept to product
- Learned tensegrity systems, dynamics of flight, scientific process application, learned development process

LEADERSHIP

UNIVERSITY OF CINCINNATI – CINCINNATI, OH

Sigma Phi Epsilon Fraternity - Chaplain

Nov. 2011 – Present

- Serve on the executive board of the fraternity, work with a team to establish yearly and future goals
- Oversee chapter direction and operations; uphold chapter values in operations and the community

Sigma Phi Epsilon Fraternity EDGE Leadership Development Program

Jan. 2010 – Present

- Facilitator; new member leadership development program; lead session on rituals, character, and values

Sigma Phi Epsilon Fraternity Ruck Institute

June 2012

- Focused on personal leadership development and leading through personal and group values

Relay for Life Committee - Greek Recruitment Chair

Sept. 2009 – June 2012

- Encourage and facilitate Greek Life participation (increased 35%); assist with event planning and operations

Sigma Phi Epsilon Fraternity Carlson Leadership Academy

Feb. 2012

- Worked with other college chapters and facilitators to learn and build best practices of executive positions

LeaderShape Institute

Dec. 2011

- Focused on leadership development process related to passions and values and making a positive change

First Year Experience Peer Leader

Sept. 2010 – Dec. 2011

- Instruct and assist college freshmen with academics, involvement, and acclimation to college life

HONORS, AWARDS, AND SERVICE

Dean's List: Fall 2009, Spring 2010, Fall 2010, Winter 2012, Spring 2012

Teach for America Alternative Spring Break:

- Innovate in Las Vegas community school system to bridge achievement gap
- Taught in eighth grade science classroom; Experienced first-hand the achievement gap difficulties

University of Cincinnati Rocket Club: Building kit rocket for competition participation

ROAR Campus Tour Guide: Show and tell prospective students why the University of Cincinnati is awesome!

Academic Scholarships: University Scholarship, David Scholarship, and Choose Ohio First Scholarship Program