

BROOKELYN RUSSEY

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501 University Oaks Blvd #203
College Station, Texas 77840

- EDUCATION** **Texas A&M University (TAMU)**, College Station, Texas May 2014
Bachelor of Science in Aerospace Engineering
Minors in Math and Economics
GPR: 3.387
40% of education financed through employment and scholarships
- ACTIVITIES**
- Society of Women Engineers** **Sept 2010 – Present**
Officer: Summer Camp Co-chair Sept 2011 – July 2012
Design, organize, and run the SWE Summer camp for middle school girls
(includes creating the budget, schedule, applications, forms, and activities)
- Summer Camp Counselor* July 2011 – Aug 2011
Provided 24 hour supervision and personal counseling for 13-14 year old
middle school girls interested in learning about engineering for a 6 day camp
that involved lab tours and engineering applications
- Public Relations Committee Member* Sept 2010 – May 2010
Posted flyers around campus announcing biweekly meetings and events
- SAE Aero Design Team** **Aug 2011-Present**
Business Director/Captain March 2012 – Present
Act as captain of the Texas A&M Aero Design team in the 2013 SAE Aero
Design Competition in Dallas. Duties include organizing selection process for
new members, team meetings, tasks, all written records and reports, expense
reports, sponsorships, transportation, access to labs, and managing the budget.
Responsibilities also include managing all material testing and selection.
Additional tasks include writing portions of the report and contributing to the
structural design and construction of the competition planes.
- Systems Integration and Materials* Aug 2011 – March 2012
Aided and managed communication between technical teams in designing a
large R/C plane to compete in the international SAE Aero Design Competition.
Also, helped construct and test the final and back-up product from raw
materials, and helped write and present the final report. Specifically, conducted
all material testing of raw wood materials according to ASTM standards using
tensile testing machine, laser strain gauge, and software, and analyzed the
results, producing the elastic modulus, ultimate strength, and yield strength in
given confidence intervals. Results were inserted into SolidWorks for more
accurate FEA. Results also showed that in tension, the epoxy would break
before the actual wood, altering the use of adhesive. Other conclusions proved
that sixteenth-inch-thick balsa wood sheets were stronger than eighth-inch-
thick balsa wood sheets, eliminating the latter in the design.
- Aggie Aerospace Women in Engineering (AAWE)** **Feb 2012 – Present**
External Networking Chair April 2012 – Present
As the first person to hold the position in a new organization, define the
responsibilities and programs related to the position. This includes recruiting
guest speakers for meetings, workshops and demonstrations, supplying
opportunities for externships and internships in outside corporations,
organizing a list of available scholarships for women in Aerospace
Engineering, and general executive position duties.

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Formalization Committee Member

Feb 2012 – June 2012

Member of a committee to create a mission, name, structure, and bylaws for a new organization for women majoring in Aerospace Engineering at Texas A&M University. To formally become a student organization on campus, the committee wrote a constitution and provided all necessary materials to be recognized by the university. Personally, contributed over half of the written constitution.

HONORS

Dean's Honor Award, *Dwight Look College of Engineering*

Fall 2010

Pi Eta Sigma, *National Honor Society*

Spring 2011-Present

Golden Key, *International Honor Society*

Fall 2010-Present

Honors AERO, *Aerospace Engineering Department*

Fall 2010- Spring 2012

Leland Snow Memorial '52 Scholarship, *Aerospace Engineering Department*

Fall 2012-Present

WORK EXPERIENCE

Texas Institute of Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles (TiIMS), Texas A&M University, College Station, TX Aug 2011-Present

Research Assistant

Experiment with and model shape memory polymers and shape memory alloys to optimize the material properties of both to create a new composite material with superior strength and more recoverable strain for a wider range of applications of smart materials.

Undergraduate Student Research Grant (USRG) Program May 2012-Aug 2012

Starbucks Coffee, Sugar Land, TX

Dec 2008- Dec 2011

Barista

Make beverages, clean and prepare store, and run register.

Quality Institute of America, Houston, TX

June 2006-

March 2008

Webmaster/Intern

Built and updated the website for QISS; input data and contacts into database

TECHNICAL SKILLS

AutoCAD, Matlab, SolidWorks, Abaqus, C++, MTS, TMA, DSC Word processing, Microsoft Excel, and PowerPoint