Samantha Hemleben

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SKILLS/ APPLICATIONS/ INTERESTS
Personal Skills - Strong leader and quick problem solver. Strengths include organization, creativity, and communication skills.
Applications- Python, C, C++, Sketchup, Solidworks, Pplane, Latex, Linux, Mathematica, MATLAB, Robot Operating System (ROS), OpenGl, and Microsoft office programs.
Interests - Software programming, project management, mathematical modeling and application

EDUCATION
Oregon State University, Corvallis, OR   M.S. Anticipated March 2017
Major: Robotics with a minor in Computer Science
Honors & Awards: MIME Department Fellowship (Merit based)

Wofford College, Spartanburg, SC   B.S. May 2015
Major: Applied Math with a Computational Science Emphasis
Honors & Awards: Bell Ringers Scholarship (Merit based), Old Main scholarship (Interview based)

EXPERIENCE
Graduate Teaching Assistant *Teaching Assistant***,** Oregon State University   September 2015- Current
- Graded assignments and created power points for introduction to engineering and intermediate dynamics.
- Led office hours to help students understand the material and gave lectures with new insight. Students who attended the office hours did better on the homework on average by ten percent.

Graduate Research Assistant- MLab *Research Assistant***,** Oregon State University   September 2015- Current
- Managed a team of four students to research the properties of the Connex Objet 350 3D printer.
- Maintained the Connex Objet 350 3D printer to ensure the quality of the prints, by troubleshooting issues, running maintenance programs, and contacting technicians for support.
- Tested the materials using Mark-10 tensile testing, motion capture video, used nonlinear elastic equations to model the material, and ANSYS to illustrate the applications of the models. This resulted in being able to predictively model the materials and 3D printed deliverables to illustrate the results.

Grace Management Consulting Project *Consultant Team Leader***,** Wofford College   March 2015- May 2015
- Lead an undergraduate student group of three to create an app for iPhones to control a scent sprayer.
- The app went into further production by the company and the company delivered a bonus to the team for surpassing the goals.

Research Intern (NSF REU) *Research Assistant***,** Oregon State University   June 2014- August 2014
- Continued the research by Dr. Ross Hatton on exploring the dynamics of a jumping spider, *salticidae.*
- Modeled the system with Matlab by using Dr. Hatton's hybrid integrator, assisted with the building of the puck launcher, and recorded data.
- Took the results to a conference for women in Mathematics in Nebraska and presented a poster.

Alumni Office *Peer Tutor*, Wofford College   March 2012- May 2015
- Individually tutored an average of 5 students, freshmen through seniors, in Math on a weekly basis.
- Increased student's grade and comprehension. One student had a 75 average before tutoring I was able to increase it to a 90 average.

Alumni Office *Assistant*, Wofford College   April 2012- May 2015
- Called alumni and friends of Wofford to inquire about donations to the Annual Fund and Terrier Club.
- Managed the student callers by organizing the schedules and mailing the thank you's to the donors. On average was able to increase the donations each session and was consistently one of the most successful callers per term in receiving donations.

CAMPUS ACTIVITIES
Society of Women Engineers Grad Group *Founding Chair,* Oregon State University   March 2016- Current
- Started the graduate group on campus by establishing the club, seeking funding, and organizing events.
- Average attendance at events was twenty to thirty graduate women and men.

Kappa Delta Women's Sorority *Vice President of Finance,* Wofford College   September 2012- May 2013
- Created the yearly $80,000 budget, collected dues, distributed payments, and reconciled the checkbook.
- Ran the sorority with the leadership team which included philanthropic events, chapter meetings, and functions.