

Rachel A. Lyons

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OBJECTIVE

Aerospace engineering student seeking internship position to gain challenging, meaningful experience.

EDUCATION

University of Miami – Coral Gables, FL

Bachelors of Science Aerospace Engineering, Economics Minor

Expected Graduation Date December 2017, Cumulative GPA 3.38

Courses: Project Management, Public Speaking, Philosophy of Behavioral Sciences, Computer Programming, Heat Transfer, Numerical Analysis, Aerospace Propulsion, Aircraft Design, Aerodynamics

WORK EXPERIENCE

WVUM 90.5 FM, The Voice

Station Engineer, Radio Host, DJ

University of Miami

April 2017-Present

- Oversee day-to-day technical operations of the station, ensure transmitter and audio equipment are fully functional
- Live DJ at various venues around Miami and campus events
- Co-host weekly science talk show, “Get Smart”, bring on relevant guests to discuss science related topics for thousands of South Florida listeners
- Share diverse music and culture from around the world as host/curator of “Planetary Funk” show

The New Right Stuff

Intern

Mojave, CA

June 2017-August 2017

- Worked directly under Loretta H. Whitesides developing materials to support space industry programs
- Recorded audio book of “The New Right Stuff”, to be used as textbook for Virgin Galactic’s Jedi Training

Redwood Adventure Camp

Advanced Counselor

Leggett, CA

June 2017-July 2017

- Led group of 7 teenagers through week long backpacking trip along eel river in Redwood Forest
- Assisted in personal growth of each camper through daily reflection, education, and conversation

LEADERSHIP

Space For Humanity

Director of Strategic Partnerships

October 2017-Present

- Develop citizen astronaut training program to empower future astronauts to make a meaningful impact
- Expand partnerships with non-profit organizations by collaborating & creating a shared mission

Yuri’s Night

Director of University Engagements

2016-Present

- Understudy of Executive Director, Tim Bailey, to assist in team operations and meetings
- Coordinate outreach through contact with students nationwide and at conferences

Students for the Exploration and Development of Space, President

American Institute of Aeronautics and Astronautics, Secretary

University of Miami

University of Miami

PROJECTS

Spaceport America Cup

Team Mediator (2017-Present), Aerodynamics Team Leader (2016-2017)

2016-Present

- Lead group meetings and work with each student to ensure individual as well as team success
- Focus on the development of overall communication, respect, and morale
- Optimize aerodynamics and minimize structural weight of 10ft rocket to reach goal of 30,000ft apogee with solid propulsion system

Hybrid Motor Rocket Competition, NASA Florida Space Grant Consortium – 3rd place

2015-2016

- Organized team-wide notebook, worked closely with all sub-teams to stay updated on progress

RockOn! Workshop, NASA Colorado Space Grant Consortium

June 2016

- Built an electronic sounding rocket payload based in Arduino to be launched ~73 miles

SKILLS

Software & Programming: Java, Matlab, Solidworks, Microsoft Word, Powerpoint, Excel

Other: PADI Rescue SCUBA Diver, Red Cross Lifeguard, Skip Barber High Performance Driving School Graduate