

Zachary J. Stein

OBJECTIVE

Provide organization and coordination to address the challenges that arise and are voiced by the various SEDS-USA chapters. To collaborate with the chapters and Board of Directors to better empower SEDS members to participate and make an impact in space exploration and development within the industry, government, and academia.

EDUCATION

University of Central Florida (UCF) August 2016 – Present
Pursuing University Honors in Aerospace Engineering (B.S.) Expected Graduation: May 2020
GPA: 3.74 on a 4.00 scale
Honors: Dean's List Fall 2016; UCF Class of 2020 Top 10 Knight (Top 10% of Class)

Relevant Coursework: Thermodynamics, Structure and Properties of Aerospace Materials, Solid Mechanics, Dynamics, and Statics

STUDENT INVOLVEMENT AND PROGRAM LEADERSHIP

Students for the Exploration and Development of Space (SEDS) April 2017 – Current
Director of External Affairs | Council of Chapters Representative

- Maintain and develop communications with companies and organizations outside of UCF
- Responsible for correspondence between the local SEDS-UCF chapter and other chapters on the regional and national level

SELECTED PROJECTS AND SKILLS

Always Greener – Research and Design Project August 2015 – May 2016
Project Manager

- Managed and oversaw 3 other team members
- Formulated, examined, and compiled data on issues regarding artificial grass and its material components in roughly 10 short reports and write-ups
- Successfully reduced hazards, such as heat by about 20°C (36°F) and diminished risks in health such as staph infections

NASA Florida Space Grant Consortium 2K Hybrid Rocket Competition August 2016 – March 2017

- Achieved target objective of reaching as close to 2000 ft with a height of 2047 ft (1st place in state)
- Collaborated and communicated within the team environment with strict deadline constraints

Design, Build, Launch August 2016 – August 2017

- Developed an understanding of rocketry, design, and operated within a \$350 budget
- Analyzed and organized data, such as projected path and height of about 4500 ft in Preliminary and Critical Design Reports

Skills

- Solid experience in 3D CAD modelling software (Solid Works; Autodesk; AutoCAD)
- Advanced proficiency in engineering technical drawings
- Knowledge with mathematical software (MATLAB)
- Experience with coding structures (C, C++)
- Robotics Education and Competition Foundation Certified Pre-Engineer in the fields of Aerospace, Electrical, and Engineering Measurements