

Kasey Keller

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SUMMARY

Graduating Mechanical Engineering student with 3 engineering internships and extensive aerospace-focused project experience in my senior design work, as well as my co-curricular involvement with rocketry teams. Devoting 8-10 hours a week as Chapter President of AIAA and 15-20 hours a week as NCAA Student Athlete with full academic course load. See resume addendum for project details.

EDUCATION

B.S. Mechanical Engineering | Math Minor | MSOE | GPA: 3.3 | expected May 20XX

- 2018 Wisconsin Space Grant Consortium Undergraduate Scholar
- Collegiate Rocket Launch 2017: Third Place

Technische Hochschule Lübeck | Lübeck, Germany | 20XX-20XX

Yearlong dual degree/study abroad program with addition of thesis

TECHNICAL SKILLS

SOLIDWORKS | MATLAB | Simulink | ANSYS | Fluent | Excel | Microsoft Office | Arduino

INTERNSHIP EXPERIENCE

Mechanical Engineering Intern | Hammerhead Trenchless Equipment | May-Sept. 20XX, 20XX, 20XX

Project: Redesign blade assembly for lower-cost manufacturing and maximized usage life of gas line extraction machine.

Blade design is in use on current prototypes.

Project: Resolve overflow of Engineering Change Requests to free up production.

Production speeds increased throughout summer as standing requests were limited.

Project: Design bracket for mounting battery disconnect switch that does not interfere with existing components in hydraulic power cabinet.

The bracket is in use and similar brackets have been implemented in other cabinets.

AEROSPACE ENGINEERING PROJECT EXPERIENCE

Gas Turbojet Engine | Team of 5 | **Senior Design Project** | 20XX-Present

Objective: Instrument and optimize turbocharger-based thrust-producing gas turbine engine for Brayton cycle analysis.

Rocket Launch Team | Team of 6 | WSGC Collegiate Rocket Launch Competition | 20XX-20XX | 10 hrs/wk

Objective: Design, build, launch, and successfully recover rocket in flyable condition within few hundred yards; including taking 360-degree photo of surroundings upon landing.

After heavy landing, brackets had only slight damage, structural integrity was not compromised, and payload remained fully functional.

Rocket Launch Team | Team of 6 | WSGC Collegiate Rocket Launch Competition | 20XX-20XX | 5 hrs/wk

Objective: Design, build, launch, and successfully recover rocket in flyable condition within few hundred yards that would generate electricity on its way to 3000 ft apogee.

Flight apogee within 27 feet of target, winning competition flight portion and 3rd overall.

LEADERSHIP EXPERIENCE

MSOE Chapter President | American Institute of Aeronautics and Astronautics (AIAA) | 20XX-Present | 8-10 hrs/wk

- Plan, schedule, and lead biweekly meetings focused on professional development featuring aerospace news, faculty, or student aerospace presentations, in collaboration with executive board of 5.
- Collaborating with AIAA professional members to connect MSOE with state chapter of industry leaders.

NCAA STUDENT ATHLETE EXPERIENCE

MSOE Men's Soccer Team | 15-20 hrs/wk

- Daily 2-hour morning practice or workout commitment.
- Balanced daily practices and twice-weekly game travel with full class schedule.
- Practiced troubleshooting and problem-solving skills in high stress, real-time competition environment.

Developed teamwork, communication skills, time management/prioritizing skills, competitive character, highly disciplined work ethic, and performance excellence