

Jeremiah Munson

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SKILLS

- Project Management
- Systems Engineering
- Public Speaking
- Documentation
- Interdisciplinary Team Leadership
- Time Management & Scheduling
- French

EDUCATION



Bachelor of Arts in Physics, *magna cum laude*, 2019

Department of Physics and Astronomy, Carthage College, Kenosha, WI

- GPA on unweighted 4.00 scale: 3.86 overall, 3.89 in Major, 4.00 in Math and Comp Sci Minors
- Notable Courses Outside Major/Minors: Advanced French (passed Carthage College Proficiency Exam), Intro to 3D Design, Public Speaking, and Intro to Public Policy among others.
- Carthage Space Sciences, Comp Sci Club, Society of Physics Students, Phi Kappa Sigma, Concert/Pep Band

EXPERIENCE

June 2016 – May 2019



Systems Engineer: CaNOP CubeSat

Wisconsin Space Grant Consortium, Carthage College: Kenosha, WI

- Orchestrated up to 20 students in subsystem teams ensuring collaboration. Led system requirement, design, and hardware integration.
- Organized and led weekly, full team meetings covering individual subsystem progress and next steps.
- Led the creation and organization of mission documentation including the 3 design reviews, the System Requirements Review, and 2 safety reviews for our launch integrator, NanoRacks.
- Performed mission simulations with Systems Tool Kit (STK) including power simulations, link coverage, and target imaging coverage.

June 2018 – August 2018

NASA Space Academy Research Associate: CubeSat Design and Engineering Model

NASA John H. Glenn Research Center: Cleveland, OH

- Defined high altitude balloon mission to advance the Technology Readiness Level (TRL) of an experimental, nano-enhanced satellite power system created at the Rochester Institute of Technology.
- Designed, assembled, and tested payload electronics around an Arduino Uno with custom Arduino shield and BeagleBone Black to cycle experimental batteries during flight.
- Launched high altitude balloon experiment and analyzed recovered data using Python.

December 2017 – May 2018

Education Chair: Phi Kappa Sigma

Gamma Gamma Chapter (Carthage College): Kenosha, WI

- Prepared and presented material to chapter of approximately 40 members. Scheduled individual meetings with members to discuss academic standing and strategies to improve. Met with or video called multiple employees from our international headquarters.

May 2015 – July 2015



Eagle Scout Project: Magelssen Bluff Trail Accessibility Enhancement

Gamehaven Council, Troop 53: Rushford, MN

- Performed cost and time analysis for project. Communicated with city officials to receive city approval. Completed and submitted paperwork to Gamehaven Council for approval. Raised funding for project to buy supplies.
- Led friends and family to complete project before I turned 18 years old.
- Built and placed 5 benches along trails scaling Magelssen Bluff. Contacted city employee to cut 17 trail signs. Painted trail signs based on sign content. Placed trail signs along trail and at entrances.

ADDITIONAL INFORMATION

Organization Memberships

Sigma Pi Sigma Physics Honors Society: Inducted May 2019

NASA Academy Alumni Association (NAAA): Inducted August 2018

Phi Kappa Sigma, Gamma Gamma Chapter: October 2016 - May 2019

Society of Physics Students (SPS): September 2015 - May 2019

American Society for Gravitational and Space Research (ASGSR): August 2017 - August 2018

Notable Presentations

Undergraduate Senior Thesis Defense: May 2019

NASA Glenn Research Center Summer Interns Poster Session: July 2018

CubeSat Developers Workshop: April-May 2018

Carthage College Celebration of Scholars: April 2018

American Society for Gravitational and Space Research Conference: October 2017