Brendan McGeeney

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EDUCATION Embry-Riddle Aeronautical University

Bachelor of Science, Aerospace Engineering

Area of Concentration: Astronautics

Prescott, Arizona December 2021 GPA: 3.41/4.0

RELEVANT COURSEWORK Senior Design, Instrumentation and Data Acquisition, Material Science for Engineers, Electrical Engineering, Space Propulsion, Aerodynamics II, CATIA, Dynamics, Structures I/II, MATLAB, Controls, Technical Report Writing, Economics for Engineers

WORK EXPERIENCE Collins Aerospace

Platform Systems Engineering Co-op (Programs: SP101, KC-135)

Cedar Rapids, IA June 2020 - Present

- Agile Work Environment 3 months as Scrum Master
 - Ran the daily scrum meeting
 - Cleared dependencies
 - Ensured 100% completion every sprint
- Participated in Formal Qualification Testing (FQT)
 - o Hardware verification
 - Software testing
- Development work
 - Test development
 - Requirement updates

Collins Aerospace

Cedar Rapids, IA

June 2019 - December 2019

Reliability Engineering Co-op

Hands on exposure with Reliability Enhancement Testing (RET)

- Data analysis for product screening effectiveness
- High Intensity Radiation Field (HIRF) and lightning component protection summary
- Failure rate predictions
- Electrical component classification

PROJECT EXPERIENCE **Senior Design:** *Member of a 7-person team*

Spring - Fall 2021

Design and build a thrust vector control system on a test stand to demonstrate a propulsively controlled landing over the course of two semesters with minimal guidance from faculty.

EagleSat: Member of an 8-person team

Spring 2017 - Fall 2018

Assisted in developing a ground station that would meet the needs of the data transfer from a cube satellite that would record the effects of radiation on commercially available RAM.

Mars Rover and MAV Design Project: Member of a 4-person team

Fall 2017

Designed and modeled a Mars rover and ascent vehicle in CATIA based on specifications given. Designs were later presented as a group.

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SKILLS Engineering Software: MATLAB, SIMULINK, Visual Basic for Applications (VBA), CATIA v.5, GMAT, C/C++,

ANSYS

Office Software: Microsoft Word, Excel, PowerPoint, Publisher, Subversion (SVN), Peer Review

Eclipse Plugin (PREP), JIRA, Jama

Technical: Agile, Data Analysis, Technical Writing

AWARDS/ CERTIFICATES Technician Class Ham Radio License, 2017

Dean's List, 2016

Honor Roll, 2017-2019, 2021

Embry-Riddle Chancellor Scholarship, 2016-Present

San Diego Air and Space Museum Future Legends Scholarship, 2016-Present