

# KARSON TICE

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## ASTRONAUTICAL, SPACE SYSTEMS & AEROSPACE ENGINEERING INTERN

A passionate, focused astronautics student leveraging a dynamic background in business development and communications to support global teams in the advancement of specialized aircraft, spacecraft, and collaborative space solutions. Seeking an opportunity to intern with an aerospace industry leader and assist in providing innovative solutions to complex challenges within this rapidly evolving market.

### *Areas of Expertise*

- Aerospace Engineering
- Programming & Coding
- Project Management
- Team Leadership
- Business Development
- Operations Management
- Development Testing
- Space Systems Analysis
- Mechanical Analysis
- Lifecycle Management
- Conceptual Design
- Drafting Documentation

Technical Competency: MATLAB, Microsoft Office. Excel, SolidWorks, Siemens NX, Java, C++, Python, JMARS, Photoshop, Cinema 4D, CATIA (Pending)

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## PROFESSIONAL DEVELOPMENT

NASA

6/2020-Present

### **Aerospace Scholar**

- Selected to participate in a developmental program utilizing online courses and lectures to drive student-led presentations and capstone projects.
- Extended an invitation to a rover-building competition in which team leadership, spacecraft and rover design are highlighted to boost scholars' understanding and pursuit of career fields offered at NASA.

### **Proposal Writing & Evaluation Program**

- Attended a program enabling students' progression in the development of innovative proposals for new technologies and concepts enabling agency objectives and enhancing mission capabilities.
- Successfully established an understanding of best-in-class proposal-writing methods to ensure sterling writing quality and adherence to strict scoring and board criteria.
- Followed NASA's New Technology Report and signed a Disclosure of Invention and New Technology, Cooperative Agreement. Directed through NASA's Technology Taxonomy; proposal was selected and addressed Key Performance Parameters.

### **Mission Concepts Program**

- Served as the outreach director and aerospace engineer to design a lander mission concept targeting the Tiger Stripe region on Saturn's Moon, Enceladus—including Orbilander concept and design, proposal and concept development, instrumentation, and propulsion.
- Effectively prepared a Preliminary Design Review (PDR) document which accurately described scientific objectives, experiments, spacecraft design, and payload per the stated PDR Outline requirements.

### **Lucy Mission Ambassador**

- Administers leadership as an expertly-trained ambassador to instruct the public regarding NASA's Lucy Mission—providing hands-on experience in the field working on teams to design mission concepts and proposals.

### ADDITIONAL EXPERIENCE

<b>Chapter President</b> , The National Society of Collegiate Scholars	4/2020-Present
<b>Owner &amp; Operator</b> , Patriot Bait & Tackle	2/2016-Present
<b>Business Account Executive</b> , GoDaddy.com	6/2019-1/2020
<b>Business Development Executive</b> , T-Mobile	9/2017-10/2018
<b>Business Development Specialist &amp; Account Executive</b> , AT&T	10/2016-9/2017

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## EDUCATION & CREDENTIALS

Embry-Riddle Aeronautical University

**Bachelor of Science, Astronautical Engineering** (Expected:2022)

*Concentration: Space Systems Engineering*

MIT on edX

**Astronautics & Human Spaceflight Certification**

Additional Skills: Electrical & Mechanical Engineering, System Interaction Design & Analysis, Audits, Requirement Analysis, Parts & Assembly Drawing, Presentations, Communication, Public Speaking, Machine & Equipment Management, Collaboration