

Grant Norman

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Education

Bachelor of Science in **Aerospace Engineering Sciences**

Boulder, CO

Applied **Mathematics** Double Major / Minor

Expected Graduation Date: May 2021

University of Colorado – Boulder

Engineering Honors Program

GPA: 3.97

Experience

Rocket-Sat 13 Engineer and Lead | Colorado Space Grant | August 2019-*present*, October 2018 – May 2019

- **Avionics Team Lead** Spring 2019, responsible for Electrical Power and Command and Data Handling Subsystems, and subsystem requirements, **design reviews**, Integration and Control Documents
- **Science Team Lead** Fall 2019 – will use complex dynamic modeling with IMU and video analysis to test feasibility of **Roccor**-backed boom design

Virtual Reality Test Engineer Intern | **Lockheed Martin** | June – August 2019

- Worked with programs in **Unity** and **C#**, improving graphics of CHILNet **VR** System, by using GPU shaders (CG / HLSL), adaptive quality, UI, and optimization

Computer Science Intern | LabJack Corporation | November 2017 - August 2018

- Wrote *customer-facing code examples* in a multitude of different languages, **collaborating for code reviews**
- Analyzed shipping costs and created multiple and polynomial regression models to better approximate costs

Skills

- Most Experienced with **MATLAB** and **object-oriented programming** (C# and Java)
- **Unity, Python**, Microsoft Office (Excel, Word, PowerPoint), **LaTeX**, Lua, Overleaf, Visual Studio
- **Teamwork** – Aerospace Curriculum places a massive emphasis on team collaboration through **projects and labs**

Academics

Mathematics – Complex Analysis, Calculus, Linear Algebra, Differential Equations, Statistics, Two 100 Hr. Contests in Mathematical Modeling;

Computational Fluid Dynamics - *Intent to begin* research with Computational Mechanics and Geometry Lab (Spring 2020)

Aerospace – Aircraft Dynamics, Thermodynamics, Aerodynamics, Electronics, Structures, Attitude Determination and Control, Orbital Mechanics