# Cole MacPherson

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🌐 Cole-MacPherson

## 🎓 Education

**University of Colorado - Boulder**
*MS Aerospace Engineering*
2022 – 2023
*Boulder, CO*

**University of Colorado - Boulder**
*BS Aerospace Engineering*
2018 – 2022
*Boulder, CO*

## 🕐 Experience

**ULA Senior Project**
*Systems Engineer*
Aug. 2021 – Present
*Boulder, CO*

> Maintain technical oversight of the project and chiefly responsible for meeting the functional requirements
> Work with team leads to ensure design decisions were feasible and meet high level functional requirements
> Aid in the design and fabrication processes of the product throughout the project
> Primarily responsible for presenting during design reviews to customers as well as a panel advisory board

**Costco**
*Stocker - Morning Merchandising*
June. 2021 – Present
*Parker, CO*

> Ensured the store was in a presentable shape
> Stocked and straightened merchandise for sale in the warehouse
> Occasionally assisted members with typical customer service duties

**State Farm**
*Data Entry and Receptionist*
June 2019 – Aug. 2019
*Greenwood Village, CO*

> Managed the front desk and ensured client's satisfaction while monitoring client's insurance claims
> Emailed important updates and information regarding client's insurance claims
> Kept track of agents sale data in an Excel spreadsheet

## ⚗ Projects

**SPACEMOD - ULA Senior Project**
Aug. 2021 - Present

> A United Launch Alliance (ULA) sponsored project concerned with the redesign of the current ESPA ring if a major design requirement was removed

**Wildfire Prediction**
Aug. 2021 - Dec. 2022

> A data mining project in which an algorithm is created to predict wildfires in a certain region

**Modeling Flow over an Airfoil**
Jan. 2021 - May 2021

> Multiple MATLAB models were created to model flow over airfoils using Thin Airfoil Theory, Vortex Panel Method, and Prandtl Lifting Line Theory

**Spacecraft Instrument Radiator Design**
Aug. 2020 - Dec 2020

> A thermodynamics project in which a radiator was designed to keep an instrument on the GOES-16 satellite within a certain operating temperature

## ⚙ Skills

**Software** CAD, CRM, Office, Photoshop, Premiere Pro
**Programming** C/C++, Git, Jupyter, MATLAB, Python

## 🌐 Clubs

**CU Sounding Rocket Lab** Liquid Engine Dev
**SUPRA: A Space Force Club** Financial Lead