Cole MacPherson

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in /cole-macpherson \(\operatorname{A} \) / macphersoncole

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Education

University of Colorado - Boulder

MS Aerospace Engineering

2022 - 2023 Boulder, CO

University of Colorado - Boulder

BS Aerospace Engineering

2018 - 2022Boulder, CO

Experience

ULA Senior Project

Aug. 2021 - Present

Systems Engineer

- 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 June. 2021 - Present

Stocker - Morning Merchandising

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 June 2019 – Aug. 2019 Data Entry and Receptionist 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

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

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