

## **Wilson Hughes, Mahdi Ghanei, and Hamzh Albar**

University of Colorado Boulder  
Mechanical Engineering Senior Design Team

Wilson Hughes, Mahdi Ghanei, Hamzh Albar worked together on the Micro Weather for UAV Operations project along with Hanwen Zhao, Joe Parnell and Alex Lubar. The team worked to develop a flight optimization algorithm and sensor package prototype that can help UAVs avoid dangerous weather areas and contribute to providing higher resolution data for micro-weather forecasting. Wilson Hughes is a Senior at the University of Colorado Boulder, he is graduating with a B.S. in Mechanical Engineering and with a minor in Engineering management. He wants to pursue work in autonomous control or sustainable energy technology post graduation. He worked on the autonomous control and is the team's financial manager. Mahdi Ghanei is a Senior in Mechanical Engineering and wants to pursue a graduate degree in Controls. He is the team's project manager and worked on flight optimization and data mapping. Hamzh Albar is a Senior in Mechanical Engineering. He wants to work on autonomous systems or energy technology after graduation. He is the teams test engineer and worked on the data collection and wind speed calculations.