

MAE 434W/435
Senior Design Project Fall 2014-Spring 2015

Title: Design and Development of a Rocket System for the Students for Exploration and Development of Space (SEDS) University Student Rocketry Challenge.	
Description: The project will design, engineer, and manufacture a high-powered rocket that carries a 3 lb payload to an altitude of 10,000 feet in the quickest time possible. The students are challenged to develop a scientific custom-built “research” propulsion system to integrate as part of their rocket. The team needs to consider ability to reach the target altitude carrying a research payload and flying with a custom “research” propulsion system. Documentation of the design and fabrication through engineering reports is required for the submission to Students for Exploration and Development of Space (SEDS) University Student Rocketry Challenge. The project is sponsored by Society of Physics Students (SPS) at Old Dominion University. The sponsorship is for designing, building, and launching of a rocket for the Students for Exploration and Development of Space (SEDS) University Student Rocketry Challenge.	
Is this project multidisciplinary? If so, with what department(s) will you be collaborating? Please note if you are looking for a collaborator.	
Number of students needed: 4-6	
Suggested by (Faculty): Kareem Ahmed	Supervised by (Faculty): Kareem Ahmed