Sean Lantto earned his bachelors of science in both Aerospace Engineering and Mechanical Engineering at West Virginia University, and is currently pursuing a Master’s in Aerospace Engineering at West Virginia University. His current research topic is the use of duty cycled GPS data for precise orbit determination, primarily on the cubesat Simulation To Flight 1(STF-1) being built at NASA’s IV&V facility in Fairmount, WV. During his undergraduate years, Sean participated in NASA’s RASC-AL design forum, helping develop concepts for a Near Earth Asteroid Mission, a Scientific Outpost at Earth Moon Lagrange 2, as well as a self-sustaining Lunar habitat, and this year is leading the effort for a concept of a cis-lunar logistics system, to support future cis-lunar stations. Sean also acted as the design lead for WVU’s submission for the Micro-G NExT program, where a tool to anchor equipment to an asteroid’s surface was developed in tested in NASA’s Neutral Buoyancy Laboratory. Sean participated in WVU’s Formula SAE team for 2 years, serving as the lead of the aerodynamics and body team his first year. Another undergraduate research project Sean has done is the concept design of a manned mission to Jupiter’s moon Callisto. Sean served as a teaching assistant for an undergraduate mechatronics class during his senior year and received an internship at the West Virginia Robotic Technology Center the summer after his graduation.

Sean’s presentation experience is primarily limited to an academic setting. He has presented at NASA’s RASC-AL design forum, presented various design presentations for his mechanical capstone, as well as his aerospace capstone. Outside of an academic setting, Sean has presented