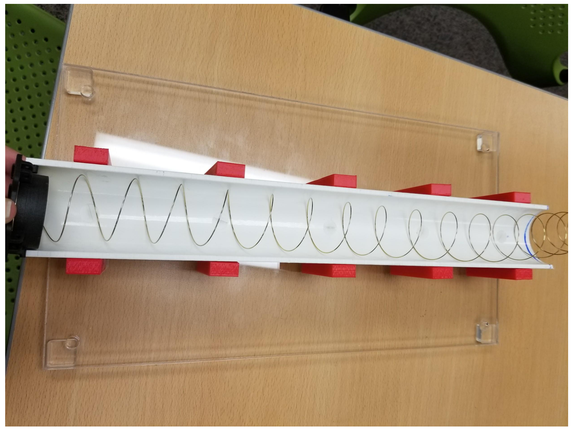
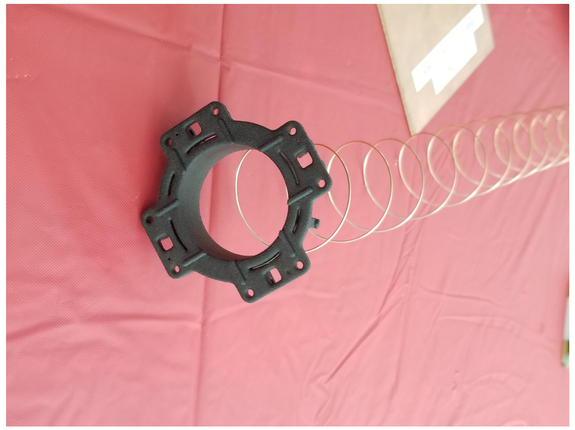
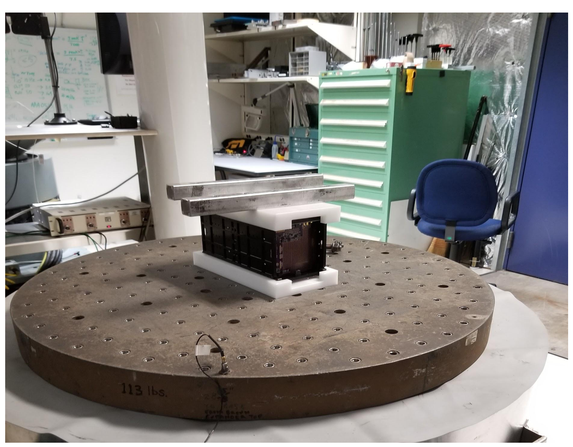
Some of my work on OreSat: Oregon's First Satellite

Left: Original Handheld Ground Station prototype created by previous team. Right: my modified Handheld Ground Station, eliminated the need for glue and improved parts for 3D printing and assembly.



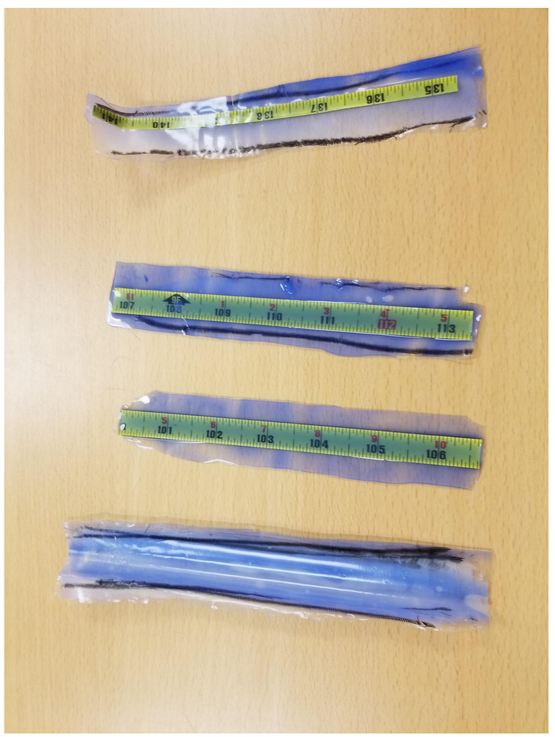


Left: I designed and assembled a PVC pipe and 3D printed helical antenna holder for use in the vacuum chamber. Right: testing the helical antenna deployment with a deployer I helped design.



Left: testing OreSat on the vibration table. Right: I worked with the machinist to refine the design of the frames for better manufacturability and reduced cost.

Left: I used the milling machine to make the base plate of the OreSat assembly jig that I designed, pictured Right fully assembled.



Left: vacuum bagging the deployable fiberglass antenna prototypes. Right: silicone, tape measure, and fiberglass combinations of deployable antenna prototypes.