

# OreSat

- ▶ **Mission: STEM outreach by sending live video space-to-ground to tracking stations built and operated by Oregon high schools**
- ▶ Ground stations will be built using 3D printers, COTS WiFi adapter cards, and existing augmented reality cellphone apps that track satellites
- ▶ S-band downlink at approximately 15 dBi gain. Needs to “point-and-stare” at ground stations with **5-10° of pointing at 1 deg/s of slew**
- ▶ Will use a **reaction wheel** based system to provide attitude control