



Activity 10.2: LunaSat Final Simulation Testing

Task 1: Conduct Sensor Testing for LunaSat 1

1. Initial Conditions

- ☒ Home position for 10 seconds

2. Temperature Sensor

- ☒ Cover the temperature sensor with your finger for 10 seconds
- ☒ Home position for 10 seconds

3. Accelerometer X

- ☒ Hold LunaSat with -X axis towards the ground for 10 seconds
- ☒ Hold LunaSat with +X axis towards the ground for 10 seconds
- ☒ Home position for 10 seconds

4. Accelerometer Y

- ☒ Hold LunaSat with -Y axis towards the ground for 10 seconds
- ☒ Hold LunaSat with +Y axis towards the ground for 10 seconds
- ☒ Home position for 10 seconds

5. Accelerometer Z

- ☒ Hold LunaSat with -Z axis towards the ground for 10 seconds
- ☒ Hold LunaSat with +Z axis towards the ground for 10 seconds
- ☒ Home position for 10 seconds

6. Magnetometer

- ☒ Bring bar magnet 6in from the LunaSat and hold for 10 seconds
- ☒ Bring bar magnet 1in from the LunaSat and hold for 10 seconds
- ☒ Home position for 10 seconds

7. Thermopile

- ☒ Hold hand 12in from the LunaSat and hold for 10 seconds
- ☒ Hold hand 6in from the LunaSat and hold for 10 seconds
- ☒ Home position for 10 seconds

8. Capacitive Sensor

- ☒ Touch Capacitive sensor with clean finger for 10 seconds
- ☒ Touch Capacitive sensor with clean finger (a little h) for 10 seconds
- ☒ Home position for 10 seconds

9. End of Test

- ☒ Gently shake LunaSat for 10 seconds
- ☒ Home position for 10 seconds
- ☒ Stop autoscroll
- ☒ Copy the data and paste into a google sheet