Activity 3.2: Shade Test

Team #3344

Task 1: LunaSat Set-Up

- ✓ Install P8 and P6 Jumpers
- ☑ Select the correct board, processor and port
- ☑ Load the "LunaSat_Solar_Panel_Voltage.ino" file onto your LunaSat
- ✓ Verify and Upload the code
- ☑ Enable the serial plotter in Arduino IDE (tools -> serial plotter)

Task 2: Changing the Angle

- Put the LunaSat under a strong source of direct light
- Manipulate the LunaSat and light source to observe different relative angles

Trial	Angle of Light	Voltage Output
01	0	2,2 V
02	30	1,8 V
03	45	1,7 V
04	60	1,5 V
05	90	0,7 V

Task 3: Changing the Amount of Light

Test out different materials to shield the solar panels and record your findings.

Trial	Material	Voltage Output
01	Nothing	1.6 V
02	Paper	o.68 V
03	Foil bag	1.32 V
04	Glass	1.23 V
05	Foil bag with regolit	0.38 V