



Activity 3.1: LED Power

Team
#3344

Task 1: Solar Panel Experiment 1 Set-Up

- ☒ Plug in the LunaSat
- ☒ Select the correct board, processor and port
- ☒ Select the correct sketch in Arduino IDE (GLEE_LED_Blink)
- ☒ Verify and upload the code to the Arduino

Task 2: Set Up the Bridge Connectors and Test

- ☒ Unplug the LunaSat from the FTDI and the colored wires
- ☒ Disconnect the connector cables from the LunaSat
- ☒ Install P1, P3, and P6 Jumpers
- ☒ Verify that the LED on the LunaSat is blinking in direct sunlight
- ☒ Verify that the LED is blinking with the back panel facing the Sun

Task 3: Explore!

Test out the capabilities of the LunaSat by covering the solar panels (SP).

Trial	Shade How Much of the SP is Covered	Is the LED Still Blinking?	Voltage Reading
01	<div>0</div>		3,12
02	<div>1</div>		2,6
03	<div>2</div>		2,1
04	<div>3</div>		1,7
05	<div>4</div>		1,2



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06	<div>5</div>		0,6
07	<div>6</div>		0,1

How much of the LunaSat can be shaded before the LED stops blinking?