

## Capstone Design

Combined BOM and Manufacturing Plan: Low-Cost Pyranometer

<b>Indented Bill of Materials (BOM)</b>			<b>Manufacturing Plan</b>			
<b>Part No. or Assy No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Make or Buy?</b>	<b>Source (or Fabrication Location)</b>	<b>Fabrication Technique (if appl.)</b>	<b>Is the Drawing Avail.?</b>
<b>Full Assy 1</b>						
Subassembly 1	Sunlight Capture	1				
Subassembly 2	Microcontroller	1				
Subassembly 3	Output to Data Logger	1				
Subassembly 4	Case	1				
<b>Subassembly 1</b>	<b>Sunlight Capture</b>	<b>1</b>				
Part 1	SFH 3310 Phototransistor	1	Buy	Mouser	N/A	No
Part 2	Teflon Sheet	1	Buy	ePlastics	N/A	No
Part 3	Acrylic Disk	1	Buy	USplastics	N/A	No
Part 4	Resistor	1	Buy	Mouser	N/A	No
<b>Subassembly 2</b>	<b>Microcontroller</b>	<b>1</b>				
Part 5	Adafruit QT py	1	Buy	Adafruit	N/A	No
<b>Subassembly 3</b>	<b>Output to Data Logger</b>					
Part 6	Resistor	1	Buy	Mouser	N/A	No
<b>Subassembly 4</b>	<b>Case</b>					
Part 7	Circuitry Housing	1	Make	Personal Equipment	3D Print from PETG	Yes
Part 8	Housing Lid	1	Make	Personal Equipment	3D Print from PETG	Yes
Part 9	Acrylic Disk Cap	1	Make	Personal Equipment	3D Print from PETG	Yes
Part 10	USB Cord Seal: Upper Piece	1	Make	Personal Equipment	3D Print from PETG	Yes
Part 11	USB Cord Seal: Lower Piece	1	Make	Personal Equipment	3D Print from PETG	Yes

Is the <b>Material</b> Avail.?	<b>Who</b> will lead ( <b>Name</b> )?	Target Completion <b>Date</b>	<b>Cost</b>	
			<b>Unit</b> Cost (\$)	<b>Extended</b> Cost (\$)
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
Yes	Lukas V.	1-Mar	\$ 0.86	\$ 0.86
No	Lukas V.	1-Mar	\$ 3.08	\$ 3.08
No	Lukas V.	1-Mar	\$ 2.00	\$ 2.00
Yes	Lukas V.	1-Mar	\$ 0.02	\$ 0.02
			\$ -	\$ -
Yes	Adriana O. and Brady J.	1-Mar	\$ 6.00	\$ 6.00
				\$ -
Yes	Lukas V.	1-Mar	\$ 0.02	\$ 0.02
				\$ -
No	Nick B.	1-Mar	\$ 0.20	\$ 0.20
No	Nick B.	1-Mar	\$ 0.20	\$ 0.20
No	Nick B.	1-Mar	\$ 0.20	\$ 0.20
No	Nick B.	1-Mar	\$ 0.20	\$ 0.20
No	Nick B.	1-Mar	\$ 0.20	\$ 0.20
<b>Total BOM Cost</b>			<b>\$</b>	<b>12.98</b>