

## Capstone Design

### Combined BOM and Manufacturing Plan - Template

Indented Bill of Materials (BOM)			Manufacturing Plan							Cost	
Part No. or Assy No.	Description	Quantity	Make or Buy?	Source (or Fabrication Location)	Fabrication Technique (if appl.)	Is the Drawing Avail.?	Is the Material Avail.?	Who will lead (Name)?	Target Completion Date	Unit Cost (\$)	Extended Cost (\$)
<b>Full Assy 1</b>											\$ -
	lens holder	4	make	3D printer		yes	yes	Wang	31-Mar		\$ -
	Product Packaging	4	make	3D printer		no	yes	Huang	10-Apr		\$ -
<b>Subassembly1-Plan A</b>											\$ -
Part 1	TR module testing board-PCB	5	buy	China		no	yes	Hu	7-Mar	\$ 10.00	\$ 50.00
Part 2	TR module board-Assembly	5	make	Lab		no	yes	Hu	14-Mar		\$ -
Part 3	Photodiode BPX61	5	buy	Online				Dai	7-Mar	\$ 10.00	\$ 50.00
Part 4	LED	5	buy	Online				Dai	Puechase	\$ 2.00	\$ 10.00
Part 5	TR module product-PCB	5	buy	China		No	yes	Hu	31-Mar	\$ 10.00	\$ 50.00
Part 6	TR module product-Assembly	5	make	Lab		No	yes	Hu	7-Apr		\$ -
<b>Total BOM Cost</b>										<b>\$</b>	<b>160.00</b>

Insert more lines as needed...

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Part No. or	Description	Quantity	Make or	Source (or	Fabric	Is the	Is the	Who will	Target	Unit Cost (\$)	Extended Cost
<b>Full Assy 1</b>											
	lens holder	4	make	3D printer		yes	yes	Wang	31-Mar		
	Product Packaging	4	make	3D printer		no	yes	Huang	10-Apr		
<b>Subassembly1-Plan B</b>											
	<b>PD circuit</b>										
Part 1	TIA Module	3	buy	Online				Dai	30-Mar	\$ 12.00	\$ 36.00
Part 2	Plano-convex lens-D=20mm F=25mm	3	make	Online				Dai	30-Mar	\$ 15.00	\$ 45.00
Part 3	D=15mm F=25mm	3	buy	Online				Dai	30-Mar	\$ 15.00	\$ 45.00
Part 4	450nm Band-pass Filter	3	buy	Online				Dai	30-Mar	\$ 20.00	\$ 60.00
Part 5	Active low-pass filter	3	buy	China				Dai	30-Mar	\$ 30.00	\$ 90.00
Part 6	Photodiode BPX61	3	buy	Online				Dai	30-Mar	\$ 10.00	\$ 30.00
<b>Subassembly1-Plan B</b>											
	<b>LED circuit</b>										
Part 7	CMOS Inverter-74HC14	6	buy	China				Dai	30-Mar	\$ 0.57	\$ 3.42
Part 8	LED	3	buy	Online				Dai	Purchased	\$ 10.00	\$ 30.00
Part 9	Resistors, Capacitors	10	buy	Online				Dai	Purchased	\$ 0.50	\$ 5.00
<b>Total BOM Cost</b>										<b>\$</b>	<b>344.42</b>