

# Capstone Design

Combined BOM and Manufacturing Plan - Team Fish Vac

<b>Indented Bill of Materials (BOM)</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>Full Assy 1</b>				
Subassembly 1	Chute	1	N/A	N/A
Subassembly 2	Frame	1	N/A	N/A
Subassembly 3	Needle Roller	1	N/A	N/A
Subassembly 4	Pump	1	N/A	N/A
<b>Subassembly 1 Chute</b>				
Part 5	Side Panel	2	Make	JML/Personal Equipmer
Part 6	Front Panel	2	Make	JML/Personal Equipmer
Part 7	Divider Insert	2	Make	JML/Personal Equipmer
Part 8	Roller Mount (Gear Side)	1	Make	JML/Personal Equipmer
Part 9	Roller Mount (Motor Side)	1	Make	JML/Personal Equipmer
Part 10	Motor Mount	3	Make	JML/Personal Equipmer
Part 11	Motor Mount Bracket	3	Make	JML/Personal Equipmer
Part 12	Motors	3	Buy	Amazon
Part 13	Set Screw	3	Buy	ME Shop
Part 14	3/16"x1" Hex Head	3	Buy	ME Shop
Part 15	3/16 Lock Nut	3	Buy	ME Shop
<b>Subassembly 2 Frame</b>				
Part 16	Frame Side	2	Make	Personal Equipment
Part 17	Frame Front	2	Make	Personal Equipment
Part 18	Adjustable Leg	4	Make	Personal Equipment
Part 19	Adjustable Leg Pin	4	Buy	Spence Hardware
<b>Subassembly 3 Needle Roller</b>				
Part 20	Needle Roller Motor Side	3	Make	GJ 125
Part 21	Needle Roller Driven	3	Make	GJ 125
Part 22	Needle Roller Geared	6	Make	GJ 125
Part 23	Axle Stub	9	Make	GJ 125
Part 24	Needles	24	Buy	Amazon
<b>Subassembly 4 Pump</b>				
Part 24	Pump	1	Buy	Amazon
Part 25	Pump Bracket	1	Make	Personal Equipment
Part 26	Spray Ball	1	Buy	Spence Hardware
Part 27	3/8"x5/16" Hex Head Bolt	3	Buy	ME Shop
Part 28	Spray Ball Bracket	1	Make	Personal Equipment
Part 29	Hose	6	Buy	Spence Hardware

Insert more lines as needed...

Manufacturing Plan					Cost	
Fabrication Technique (if appl.)	Is the Drawing Avail.?	Is the Material Avail.?	Who will lead (Name)?	Target Completion Date	Unit Cost (\$)	Extended Cost (\$)
						\$ -
N/A	N/A	N/A	N/A	N/A		\$ -
N/A	N/A	N/A	N/A	N/A		\$ -
N/A	N/A	N/A	N/A	N/A		\$ -
N/A	N/A	N/A	Ben	N/A		\$ -
					\$ 484.00	\$ 484.00
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
N/A	No	Yes	Ben	6-Nov	\$ 13.99	\$ 41.97
N/A	No	Yes	Ben	6-Nov		\$ -
N/A	No	Yes	Ben	6-Nov		\$ -
N/A	No	Yes	Ben	6-Nov		\$ -
					\$ -	\$ -
Plasma Cut/Tig Weld	Yes	Yes	Cody	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Cody	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Cody	6-Nov		\$ -
Plasma Cut/Tig Weld	Yes	Yes	Cody	6-Nov	\$ 2.36	\$ 9.44
						\$ -
3D Printer	Yes	Yes	Cody	6-Nov		\$ -
3D Printer	Yes	Yes	Cody	6-Nov		\$ -
3D Printer	Yes	Yes	Cody	6-Nov		\$ -
3D Printer	Yes	Yes	Cody	6-Nov		\$ -
N/A	N/A	Yes	Cody	6-Nov	\$ 0.20	\$ 4.80
						\$ -
N/A	No	Yes	Ben	6-Nov	\$ 70.97	\$ 70.97
Plasma Cut/Tig Weld	Yes	Yes	Ben	6-Nov		\$ -
N/A	No	Yes	Ben	6-Nov	\$ 30.00	\$ 30.00
N/A	No	Yes	Ben	6-Nov		\$ -
Plasma Cut/Tig Weld	No	Yes	Ben	6-Nov		\$ -
N/A	No	Yes	Ben	6-Nov	\$ 0.69	\$ 4.14

**Total BOM Cost** **\$ 645.32**