

CNC Router Table A



JESSICA COLLINS - PROJECT MANAGER

UDAY KADHUM - SECRETARY

MICAEL LJUNGBERG - CLIENT CONTACT

JASON TROXLER - BUDGET LIAISON

BADER ALFADHLI - WEB DEVELOPER

SARA HAMADAH - WEB DEVELOPER

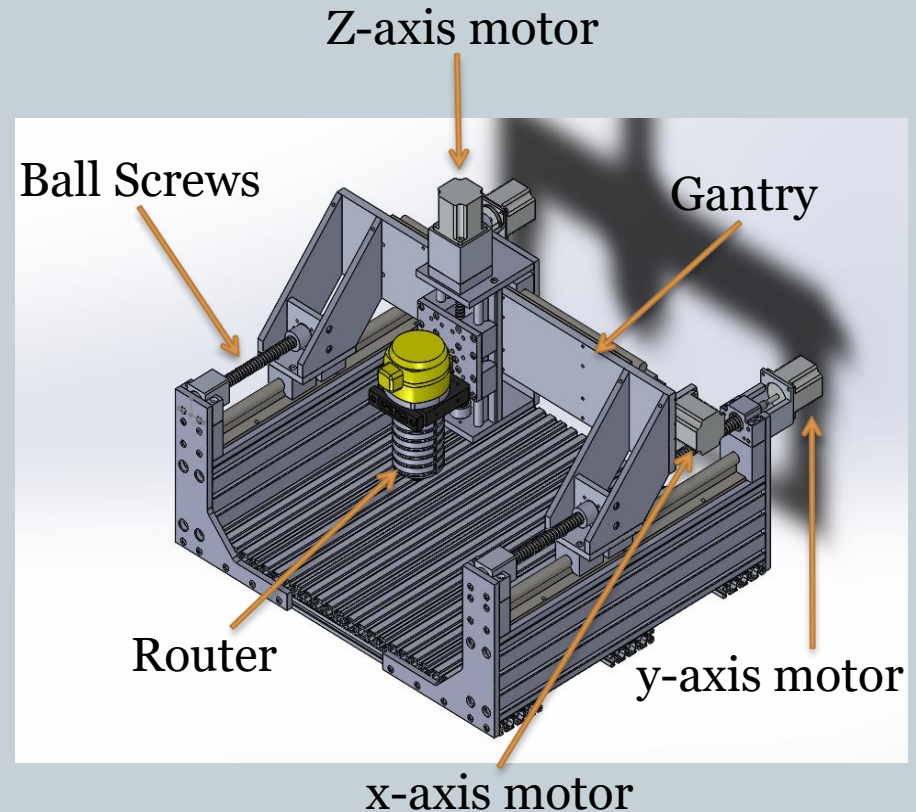
Project Description



- The project deliverables and scope are consistent.
- The project satisfies the client's original requirements.
- The project schedule is on track.

Updates

- CAD assembly updated
 - Hardware holes added, parts resized, addition of new parts.
- Part orders sent out
 - Ball screws, Linear Rails, Aluminum, Smoothie Board, Hardware
- Started organizing work order vs team machined parts
- Router spec. out and chosen
 - Makita RT0701C-R



Manufacturing



Week 1

Bearings and spacers are machined Gantry Part is sent to NAU machine shop



Week 2

gantry assembly after waterjet machined parts are finished
Y-axis ball screws and bearing mounts for the gantry are machined.



Week

Z-axis components are machined and installed

Week 4

Assembly of sub-system



Week 5

Finishing remaining parts



Week 6

Assembly of control box

Manufacturing Cont'd



- Jason Troxler -
 - Jessica Collins -
 - Micael Ljungberg -
- } Machining, Assembly & Component Design
- Bader Alfadhli — Manufacturing/ Assembly
 - Sara Hamadah -
 - Uday Kadhum -
- } Component Design & Assembly Support

Schedule



Task #	Work to be done:	Time
1	Machining of parts & Assembly of the machine.	Jan 27– Mar 9
2	Progress Presentations	Feb 2
3	Hardware Review 1:	Feb 16
4	Testing procedures	Mar 3 – Mar 10
5	Midpoint Review Presentation	Mar 9
6	Eventual trouble shooting (repeat steps 11 and 12 as needed)	Mar 10 –Mar 13
7	Start cutting materials	Mar 14– Mar 17
8	Finish the user manual (continuously over the entire implementation phase)	Mar 18–Mar 31
9	Hardware Review 2: Present the machine	Mar 23
10	Final Product Testing Proof	Apr 20
11	UGRADS Presentations	Apr 24
12	Final Report Due	May 1

Budget



- Budget totals
 - Initial Estimate \$1578.94
 - Current Expenditures \$1557.37
- Budget increased to \$2000
- Overages
 - Metal costs due to design change
 - Initial estimates based off Sq. in.
- Expected needs ~\$300
- Credit Openbuilds ~\$43

Orders Placed							
Item	Qty	Price Each	shipping	Tax	Total	description	location
Order 1							
1	1	\$ 400.00			\$ 400.00	Linear motion components	ebay
2	2	\$ 27.75	\$ 12.00		\$ 67.50	60x120 extrusion for sides	Misumi
3	3	\$ 12.54			\$ 37.62	20x80x600mm extrusion for base	Misumi
4	1	\$ 164.64	\$ 30.77		\$ 195.41	Smoothie board	andornot
5	1	\$ 5.70			\$ 5.70	voltage regulator	andornot
Order 2							
6	6	\$ 10.00	\$ 33.55		\$ 93.55	60x80x500mm extrusions for bed	Openbuilds
7	2	\$ 3.20			\$ 6.40	M5 x 10mm screws	Openbuilds
8	6	\$ 3.30			\$ 19.80	M5 x 15mm screws	Openbuilds
9	6	\$ 3.40			\$ 20.40	M5 x 20mm screws	Openbuilds
10	1	\$ 3.75			\$ 3.75	M5 x 25mm screws	Openbuilds
11	1	\$ 4.85			\$ 4.85	M5 x 50mm screws	Openbuilds
12	3	\$ 4.95			\$ 14.85	Tee nuts (25 pack)	Openbuilds
13	5	\$ 4.50			\$ 22.50	Micro limit switches	Openbuilds
14	30	\$ 2.00			\$ 60.00	3 Conductor cable	Openbuilds
15	30	\$ 2.50			\$ 75.00	4 conductor cable	Openbuilds
16	1	\$ 14.49	\$ 7.79		\$ 22.28	Tee nuts for large extrusion HNKK6-5	Misumi
17	4	\$ 24.50	\$ 12.11		\$ 110.11	Nema 23 stepper motors	smw3d
18	1	\$ 31.99			\$ 31.99	24v 14.6a power supply	smw3d
19	1	\$ 42.25	\$ 30.38		\$ 64.18	.5" x 25" x 5" aluminum rectangle	Online metal
20	1	\$ 7.95			\$ 6.36	Extruded rectangle 1"x 2.25"x 5"	Online metal
21	1	\$ 12.60			\$ 10.08	Extruded rectangle 2"x 2.5" x 4.5"	Online metal
22	1	\$ 9.90			\$ 7.92	Extruded rectangle 1.25"x 2.5" x 4.5"	Online metal
23	1	\$ 9.18			\$ 7.34	Extruded square 2.5"x2.5"x2.5"	Online metal
24	1	\$ 15.36			\$ 12.29	Extruded square 4"x4"x2"	Online metal
25	1	\$ 128.79			\$ 103.03	Aluminum 6061 .375" plate 24"x24"	Online metal
Order 3							
26	1	\$ 130.25			\$ 130.25	Waterjet cutting of parts	SWWJ
27	1	\$ 7.95	\$ 3.66		\$ 11.61	Extruded rectangle 1"x 2.25"x 5"	Online metal
28	1	\$ 12.60			\$ 12.60	Extruded rectangle 2"x 2.5" x 4.5"	Online metal
					Total	\$1,557.37	

Questions?

