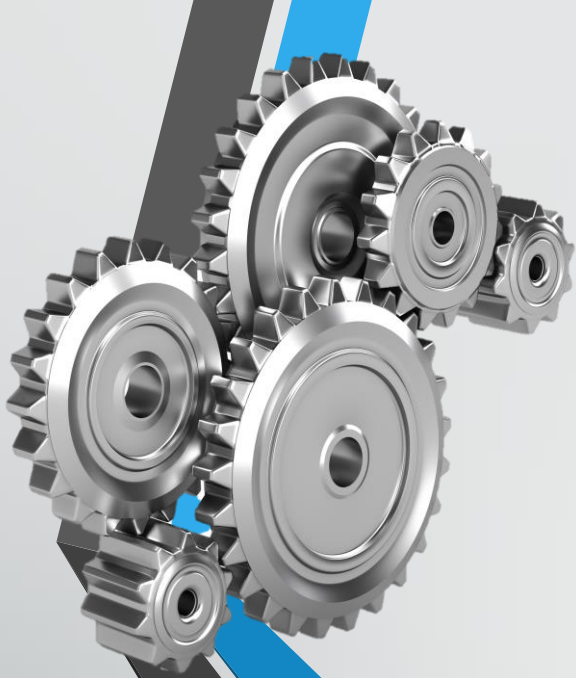




CNC router table A

Jessica Collins- Project Manager

Uday Kadhum- Secretary

Micael Ljungberg – Client Contact

Jason Troxler- Budget Liaison

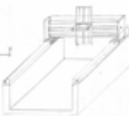
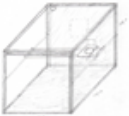
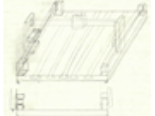
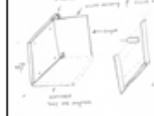
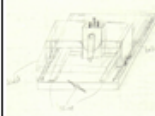
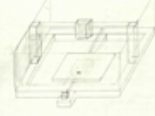
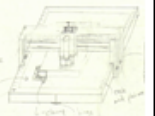
Bader Alfadhli- Web Developer

Sara Hamadah- Web Developer

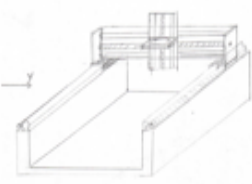
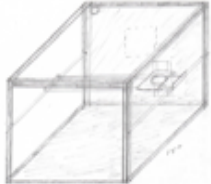
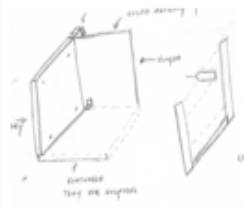
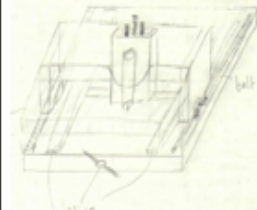
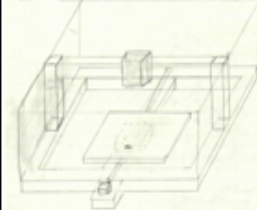
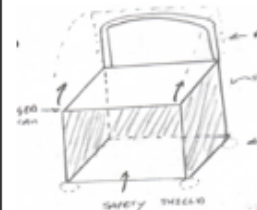
Project Description

- Multi-Use CNC Table
 - Routing focus
 - Wood and Aluminum machining
 - 12 X 12 X 3 inches
 - Robust
 - Open Source Software
 - 120V 60Hz power source

Designs Considered (Product):

CNC Router Table A Pugh Chart												
Description			High Side Precision CNC	Polar Coordinate Mill	Box CNC	V-Rail CNC	3030 CNC	Vertical Work Platform	Belt Drive CNC	Moving Table Fixed Gantry	Easy Roll Box CNC	Rack and Pinion Drive CNC
Sketches												
Design Criteria		Weight	Design #1	Design #2	Design #3	Design #4	Design #5	Design #6	Design #7	Design #8	Design #9	Design #10
1	Low Weight	2	0	-	+	0	D A T U M	0	+	-	+	0
2	Low Cost	3	0	-	0	+		0	+	0	0	+
3	High Tolerance	3	+	+	0	-		0	-	+	0	-
4	Easy Portability	2	0	0	+	+		0	0	0	+	+
5	Cleaning	1	-	0	-	0		+	0	+	-	0
6	Innovative Idea	1	-	+	0	-		+	0	0	+	0
7	Manufacturability	3	+	-	0	-		0	0	0	-	-
8												
+			6	4	4	5		2	2	2	3	2
0			3	2	4	2		5	4	4	2	3
-			-2	-8	-1	-7		0	1	1	2	2
Net Score			4	-4	3	-2		2	1	1	1	0
Rank			1	10	2	9	7	3	4	4	4	7

DESIGNS CONSIDERED (PRODUCT):

CNC Router Decision Matrix		Design #1	Design #3	Design #6	Design #7	Design #8	Design #9
		High Side Precision CNC	Box CNC	Vertical Work Platform	Belt Drive CNC	Moving Table Fixed Gantry	Rack and Pinion Drive CNC
							
1. Safety	16%	3	5	5	3	5	5
2. Cutting Ability (wood/ Al)	16%	5	3	3	3	3	3
3. Cost	16%	3	3	1	5	1	3
4. Tolerance	13%	5	3	3	3	5	3
5. Open Source	6%	1	1	1	1	1	1
6. Multiple Usage	10%	5	5	5	5	5	1
7. Size	5%	3	3	3	3	1	3
8. Portable	2%	3	3	3	3	3	5
9. Typical house hold elec servic	16%	5	5	5	5	5	5
		3.97	3.71	3.39	3.71	3.55	3.36
		1	2	5	2	4	6

Design Selected:

- 120V
- Shorter Gantry sides
- Twin X Axis Motors
- Router for Spindle
- Ball Screw for Motion
- Supported Rails

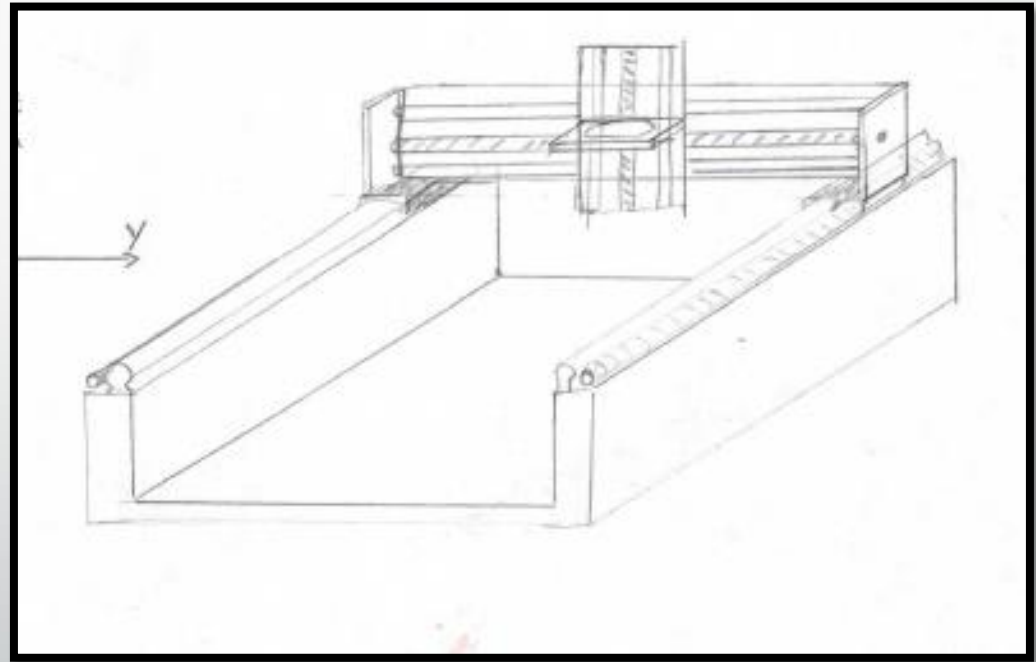


Figure 1. Selected design for CNC Router build

Schedule & Budget:

- On schedule with all current tasks
- Upcoming
 - Individual analysis 11/11/16
 - Component selection 11/18/16
 - Cost analysis (Budget) 11/18/16
 - Final Proposal 11/26/16
 - Prototype 12/9/16

Budget

- Describe the project's budget including total dollars available, anticipated expenses, actual expenses to date, and the resulting balance. Note anticipated expenses will still be estimates at this point.



Questions?



References