

Post date:

Saturday, October 4, 2014 - 23:53

Last modified:

Sunday, December 14, 2014 - 14:20

**Place holder for main article...**

This project contains many small elements which i have tried to document the best i could and with as much detail as i could, **but** please note, im a tinkerer not a writer. This page will give a general break down with some images and video along with links to different stages of the project and to each component.

## Stages of the Project

Each stage has a write up along with a video

- [Stage One](#) (LCD, Menu, Rapid, DOC knob)
- [Stage Two](#) (A temporary "Panel" , Drill Cycle, Feed switch and Feed potentiometer added)
- [Stage Three](#) ( )

## Project Components

- Main Control
- [D.O.C \(Depth Of Cut\) Box / Pendant](#)
- [4x4 matrix Keypad](#)
- [CMOS Memory](#)

## Part List

Heres the parts list (theres probably a few things ive missed, but for the most part this list should be complete): **Note** im not endorsing or advertising here, its just where i got the parts from, im sure if you search you could find better deals.

\$58.00 [SainSmart Mega2560 R3 ATmega2560-16AU + Keypad Starter Kit with over 16 Basic Arduino Tutorial Projects for Arduino Beginners](#)

\$5.57 [22mm Latching 2 NO Three 3-Position Rotary Selector Select Switch ZB2-BE101C](#)

\$2 (10) \$6.99 [10PC New 16A 12V Round Rocker Toggle Switch Green LED SPST For All](#)

\$1 (4) \$5.28 [Amico 4 Pcs AC 125V 6A 3 Pin SPDT On/Off/On 3 Position Mini Toggle Switch Blue](#)

\$11.13 [Car 6 Pins On-Off-On Rocker Switch Momentary Rocker Switch 3pcs](#)

\$2 (5) \$10.99 [Vktech 5Pcs Black Brushless DC Cooling Blower Fan 5015S 5V 0.1-0.3A 50x15mm](#)

\$4.98 [AC250V/3A AC125V/6A OFF\(ON\) NO Round Momentary Push Button Switch 5 Pcs](#)

\$4 (2) \$7.71 [40mm Red Sign Mushroom Emergency Stop Push Button Switch SPDT 6A 250V AC](#)

\$7.90 [Industries CU-234 Aluminum Econobox, 4-43/64" Length x 3-43/64" Width x 2-13/64" Height, Natural Finish](#)

\$18.80 [BUD Industries CN-5711 Die Cast Aluminum Enclosure, 8-3/4" Length x 5-47/64" Width x 2-1/4" Height, Natural Finish](#)

\$4 (2) \$7.92 [MAX7219 CWG 8-Digit Digital Tube Display Control Module Red for arduino](#)

\$2.99 [2 x PCF8574 I2C I/O Bus Expander IC - USA Seller - Free Shipping](#)

\$19.99 [Bourns ENT1J-D28-L00128L EN Model Rotary Optical Encoder](#)

\$6 (5) \$28.80 [C15HPSMMETAL Assembled Hd15 Male Solder D-Sub Connector With Metal Backshell](#)  
\$12.00 [US UNO R3 ATmega328P ATmega16U2 2012 Version Board & Free USB Cable for Arduino](#)  
\$5 [I2C EEPROM - 256kbit](#)  
\$10 D-SUB plugs  
- \$175 Total

-

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## Other site pages which link here:

- [MINI NC Controller for Z-axis: Stage One](#)
- [MINI NC Controller for Z-axis: Stage Two \(Panel & Drill Cycle\)](#)
- [MINI NC Controller for Z-axis: DOC Box](#)
- [MINI NC Controller for Z-axis: 4x4 Matrix Keypad](#)
- [MINI NC Controller for Z-axis: CMOS Memory](#)

Category:

[Industrial Hobbies Mill Modifications](#)

Tags:

[Arduino](#)

[Videos](#)

- [Add new comment](#)

## Comments

### [Hi friend, awesome project. I](#)

Submitted by [Odair \(not verified\)](#) on Tue, 07/18/2017 - 00:20.

Hi friend, awesome project. I'd like to build it, it would be very useful to me. I already have all the materials listed here, but I don't know how to code. I noticed that the "Stage Three ()" and "Main Control" was never finished, would you mind sharing the whole code used ? I'd appreciate it.

Cheers.

### [Add new comment | Just Another Way To Do It...](#)

Submitted by [Verutum RX Reviews \(not verified\)](#) on Sat, 08/11/2018 - 16:02.

Hello, I do think your web site could possibly be having browser compatibility problems. Whenever I take a look at your web site in Safari, it looks fine however, if opening in Internet Explorer, it has some overlapping issues.

I merely wanted to give you a quick heads up!

Apart from that, great site! <http://smdservicesllc.com/UserProfile/tabid/57/userId/18784840/Default.aspx>

### **Add new comment | Just Another Way To Do It...**

Submitted by [Maxadrex Male E...](#) (not verified) on Tue, 08/14/2018 - 20:49.

Thank you for each of your hard work on this web page. My daughter delights in making time for research and it's obvious why. I know all about the dynamic medium you produce advantageous guides on the web site and in addition foster participation from other people on this theme plus our own child is undoubtedly becoming educated so much.

Take pleasure in the rest of the year. You're conducting a wonderful job. <http://regis.nstru.ac.th/phpinfo.php?a%5B%5D=%3Ca+href%3Dhttps%3A%2F%2Fj...>

### **Add new comment | Just Another Way To Do It...**

Submitted by [Poseidon CBD Review](#) (not verified) on Tue, 08/14/2018 - 23:07.

It is the best time to make a few plans for the long run and it's time to be happy. I have learn this put up and if I may I want to recommend you few attention-grabbing things or suggestions.

Perhaps you could write subsequent articles referring to this article.

I desire to read more things about it! <https://poseidoncbd.com/>

### **Add new comment | Just Another Way To Do It...**

Submitted by [Verutum RX](#) (not verified) on Sat, 08/18/2018 - 08:05.

hey there and thank you for your info ? I have definitely picked up something new from right here.

I did however expertise several technical issues using this site,

since I experienced to reload the site lots of times previous to I could get it to load correctly.

I had been wondering if your web host is OK?

Not that I'm complaining, but slow loading instances times will sometimes affect your

placement in google and could damage your high quality score if advertising and marketing with Adwords.

Well I am adding this RSS to my e-mail and could look out for a lot more

of your respective intriguing content. Ensure that you update this again soon. [http://www.lookweb.it/Verutum\\_RX\\_3101784](http://www.lookweb.it/Verutum_RX_3101784)

### **Add new comment | Just Another Way To Do It...**

Submitted by [Poseidon CBD Reviews](#) (not verified) on Sat, 08/18/2018 - 14:02.

Hello. This article was extremely remarkable, particularly since I was investigating for thoughts on this issue last Monday. [https://www.samtuga.com/index.php?page=user&action=pub\\_profile&id=760548](https://www.samtuga.com/index.php?page=user&action=pub_profile&id=760548)

### Add new comment | Just Another Way To Do It...

Submitted by [Keto Fire Pills \(not verified\)](#) on Fri, 08/24/2018 - 10:23.

Undeniably believe that which you stated. Your favorite justification appeared to be on the web the easiest thing to be aware of. I say to you, I definitely get annoyed while people think about worries that they plainly don't know about. You managed to hit the nail upon the top and defined out the whole thing without having side-effects, people could take a signal. Will likely be back to get more. Thanks <https://tv.aulta.net/jump.php?url=http://www.wanderlodgewiki.com/index.p...>

### Add new comment | Just Another Way To Do It...

Submitted by <https://alphatr...> (not verified) on Sun, 08/12/2018 - 22:29.

My brother recommended I may like this web site. He was once totally right. This put up truly made my day. You can not imagine simply how so much time I had spent for this info! Thanks! [http://commdp.serv.usu.edu/wiki/index.php/Assistance\\_In\\_Muscle\\_Building\\_...](http://commdp.serv.usu.edu/wiki/index.php/Assistance_In_Muscle_Building_...)

### Add new comment | Just Another Way To Do It...

Submitted by [Poseidon CBD Review \(not verified\)](#) on Sun, 08/19/2018 - 22:13.

Yay google is my world beater aided me to find this outstanding website! <http://crowsonline.net/groups/sugar-scrub-skin-benefits-quality-matt...>

### Add new comment | Just Another Way To Do It...

Submitted by [Poseidon CBD Extract \(not verified\)](#) on Fri, 08/24/2018 - 05:16.

I was studying some of your articles on this internet site and I conceive this site is real instructive! Keep on putting up. [https://wiki.towsonmaker.space/?title=Recommendations\\_The\\_Omega\\_3\\_Diet](https://wiki.towsonmaker.space/?title=Recommendations_The_Omega_3_Diet)

### Add new comment | Just Another Way To Do It...

Submitted by [Rock Hard Bull ... \(not verified\)](#) on Tue, 08/14/2018 - 03:18.

Wow, this article is fastidious, my younger sister is analyzing these kinds of things, so I am going to inform her. <https://rockhardbullenhancement.net/>

### Add new comment | Just Another Way To Do It...

Submitted by [One Lite Nutrit... \(not verified\)](#) on Thu, 08/16/2018 - 01:14.

Hello my family member! I want to say that this post is awesome, great written and come with almost all significant infos. I'd like to look extra posts like this . <https://onelitegarcinia.net/>

### Add new comment | Just Another Way To Do It...

Submitted by [One Lite Garcin... \(not verified\)](#) on Tue, 08/14/2018 - 08:30.

Hello! Do you know if they make any plugins to safeguard against hackers? I'm kinda paranoid about losing everything I've worked hard on. Any recommendations? <https://k1news.ru/bitrix/rk.php?goto=https://bigbizsocial.com/groups/wha...>

### Add new comment | Just Another Way To Do It...

Submitted by [Poseidon CBD Review \(not verified\)](#) on Fri, 08/17/2018 - 19:33.

Hi there! I just wanted to ask if you ever have any trouble with hackers? My last blog (wordpress) was hacked and I ended up losing several weeks of hard work due to no back up. Do you have any methods to protect against hackers? <http://projectbuckets.com/3424/3-effortless-ways-to-reduce-yeast-infecti...>

### Add new comment | Just Another Way To Do It...

Submitted by [Poseidon CBD \(not verified\)](#) on Sat, 08/18/2018 - 21:05.

I am commenting to make you be aware of what a remarkable encounter my wife's princess obtained studying your site. She figured out many issues, not to mention what it's like to have a great helping nature to let a number of people quite simply know just exactly specified tricky issues. You truly surpassed people's expectations. Thank you for coming up with the priceless, safe, educational and cool guidance on that topic to Ethel. [http://nobodysproperty.com/wiki/index.php?title=3\\_Effortless\\_Ways\\_Get\\_Ri...](http://nobodysproperty.com/wiki/index.php?title=3_Effortless_Ways_Get_Ri...)

## Add new comment | Just Another Way To Do It...

Submitted by [Keto Fire Review \(not verified\)](#) on Mon, 08/20/2018 - 17:39.

Hi! I know this is kinda off topic but I'd figured I'd ask.

Would you be interested in trading links or maybe guest authoring a blog post or vice-versa?

My site goes over a lot of the same subjects as yours and I believe we could greatly benefit from each other.

If you happen to be interested feel free to send me an email.

I look forward to hearing from you! Superb blog by the way!

<http://www.badmoon-racing.jp/frame/?url=http://pciapp.cloudapp.net/gpath...>

## <http://www>

Submitted by [Anonymous \(not verified\)](#) on Fri, 10/12/2018 - 06:28.

<http://www.nikefactoryoutletonlinesale.com/>

<http://www.michaelkorsjetsetdiaperbagoutletonline.com/>

<http://www.nikeoutletshoesonlinestore.com/>

<http://www.nikediscountshoesoutletstore.com/>

<http://www.airjordanscheapshoesonlinesale.com/>

<http://www.airjordanscheapshoesonline.com/>

<http://www.adidasoutletonlineshoessale.com/>

<http://www.headphonesoutletsalesonlinecheap.com/>

<http://www.louboutinshoesonlineoutletstore.com/>

<http://www.redbottomshoeschristianlouboutinstore.us.com/>

<http://www.nikeshoesfactoryoutletssale.com/>

<http://www.nikeshoesfactorystoreonline.com/>

<http://www.christianlouboutinfactorystore.co.uk/>

<http://www.saltmalt.co.uk/>

## <http://www.yamaha>

Submitted by [Yamaha outboard... \(not verified\)](#) on Wed, 01/16/2019 - 02:26.

<http://www.yamaha-outboardsale.com/>

<http://www.yamaha-outboardsale.com/specials.html>

[http://www.yamaha-outboardsale.com/products\\_new.html](http://www.yamaha-outboardsale.com/products_new.html)

[http://www.yamaha-outboardsale.com/featured\\_products.html](http://www.yamaha-outboardsale.com/featured_products.html)

[http://www.yamaha-outboardsale.com/products\\_all.html](http://www.yamaha-outboardsale.com/products_all.html)