




Below are the items I made use of for the build, I did not include the normal switches and buttons, wires. You will notice I did not make use of resistors as I uses the microprocessor's internal pull-up resistor to handle noises from buttons press.

	Arduino Nano	https://world.taobao.com/item/42296011350.htm?fromSite=main&spm=a312a.7700846.0.0.tO8EAg&_u=81p5mvl5c6fe
	74HC595 2 Digits 7-Segment LED	https://world.taobao.com/item/43447719493.htm?fromSite=main&spm=a312a.7700846.0.0.tO8EAg&_u=81p5mvl503c7
	5V 10Amp Relay (to control pusher on/off)	https://detail.tmall.com/item.htm?id=525509012478&toSite=main
No picture	IRF3708 Mosfet and the IN5408 Diode (to control Flywheel DC motors on/off) 10k resistor and 100 ohm register	
	PWM controlled module (to control ROF)	https://detail.tmall.com/item.htm?id=536770526104&toSite=main
	Voltage sensor module (to find current voltage of lipo to make calculation of ROF voltage)	https://world.taobao.com/item/43100493066.htm?fromSite=main&spm=a312a.7700846.0.0.tO8EAg&_u=81p5mvl5a29b
	104 Capacitor 104P 0.1UF 100NF 50V (to filter electric noise produced by DC motors)	https://detail.tmall.com/item.htm?id=41231794779&toSite=main
	DC to DC Buck converter (to convert voltage from 3s Lipo to 5V, for the 2 relays and the Arduino board)	https://detail.tmall.com/item.htm?id=17616429123&toSite=main
	Rotary Encoder	https://world.taobao.com/item/529477048471.htm?fromSite=main&spm=a312a.7700846.0.0.tO8EAg&_u=81p5mvl5c18c

	Headers Pin	https://detail.tmall.com/item.htm?id=13321158484&toSite=main
	Headers Pin	https://detail.tmall.com/item.htm?id=13700799942&toSite=main
	DuPont head	https://world.taobao.com/item/40698419655.htm?fromSite=main&spm=a312a.7700846.0.0.eyJEMU&u=n1p5mvl5af1b
	DuPont male head	https://world.taobao.com/item/19134756118.htm?fromSite=main&spm=a312a.7700846.0.0.eyJEMU&u=n1p5mvl5d7cb
	DuPont male head	https://world.taobao.com/item/37120521950.htm?fromSite=main&spm=a312a.7700846.0.0.eyJEMU&u=n1p5mvl51604
	Button	https://world.taobao.com/item/536748679303.htm?fromSite=main&spm=a312a.7700846.0.0.eyJEMU&u=n1p5mvl587ab
	Button	https://world.taobao.com/item/537772544456.htm?fromSite=main&spm=a312a.7700846.0.0.eyJEMU&u=n1p5mvl5c95a
	Dean connector	https://world.taobao.com/item/2003313604.htm?fromSite=main&spm=a312a.7700846.0.0.eyJEMU&u=n1p5mvl55a26

	Small version of Dean connector	https://world.taobao.com/item/2386233716.htm?fromSite=main&spm=a312a.7700846.0.0.eyesEMU& u=n1p5mvl5e01d
	Battery Tape	https://hobbyking.com/en_us/battery-tape-150mm-5pcs-bag.html
	Turnigy nano-tech 1200mAh 3S 25-50C Lipo AIRSOFT Pack	https://hobbyking.com/en_us/turnigy-nano-tech-1200mah-3s-25-50c-lipo-airsoft-pack.html

There are more basic items such as pin connectors, etc.

Article on Dealing with Motor Noise:

<https://www.pololu.com/docs/0J15/9>