

	Hardware	
	Logic Board	
	Raspberry pi 2	Install the CASP.ER Rasbian Install v0.3
	Edimax USB WiFi	Attach ti USB port on Raspberry pi 2
	piCamera	Attach to camera port on Raspberry pi 2
	USB to USB Micro 2.0 Cable	Attach USB to DC converter and Micro USB to Raspberry pi 2 to power the Raspberry pi
	Tower Pro 9g 180degree Servo (X Axis)	Connect RED to 5V and Brown to GND on Power Splitter Board then Orange to the D11 pin on the Arduino Uno
	Tower Pro 9g 180degree Servo(Y Axis)	Connect RED to 5V and Brown to GND on Power Splitter Board then Orange to the D12 pin on the Arduino Uno
	MotorController	
	Arduino Uno	Install the MotorController_V03.ino
	Toro 18 Amp ESC (Electronic Speed Controller)	Connect the White Cable to the D10 pin on the Arduino Uno then the Black to GND on the Power Splitter Board
	Tower Pro 9g 180degree Servo	Connect RED to 5V and Brown to GND on Power Splitter Board then Orange to the D9 pin on the Arduino Uno
	Emax B2040-15 3600KV Brushless Inrunner Motor	Connect wires to the 3 Color Coded connectors on the ESC that are blue,yellow and orange.
	USB A-B 2.0 Cable	Attach USB A to Raspberry pi 2 and USB B to Arduino Uno to power the Arduino and establish a serial link
	LidarController	
	Arduino Nano	Install the Lidar_Mounted_V_02.ino
	Stepper Motor 28BYJ-48 + Driver board ULN2003	Connect To Power Splitter Board and Arduino Nano D8,D9,D10,D11 pinns
	ELectrolytic Capasitor 1000uf	Connect Between Power Supply and Lidar
	Lidar Lite V2	Connect to the electrolytic capacitor and the Power Splitter Board , And the I2C to the Arduino Nano A4 (SDA) and A5 (SCL) pinns.
	USB to mini USB 2.0 Cable	Attach USB to Raspberry pi 2 and mini USB to Arduino nano to power the arduino and establish a serial link
	Power Distrubution	
	11.1V 1000mAh LiPo Battery	B1 Connector
	0-12V -> 5V Dc Converter (2 USB out)	Connect the RED wire to the RED cap and the BLACK wire to the BLACK cap on the Power Distribution Board
	USB Cable (any)	Attach USB to DC converter, cut other connector and find the RED (5V+) and BLACK (GND) cables and connect them to the Power Splitter Board
	Power Splitter board	2 Lane PCB with one lane 5V and one GND
	Power Distribution Board (Hobby King Quadcopter Power Distribution Board)	Connect the BLACK wire to the BLACK Battery Connector underneath the RC car and the RED wire to the Power Switch on the RC car
	Chassit	
	RC car	Remove the initial plastic cover, Remove the Original Engine, Remove the Logic Board, Remove the Steering DC and gearbox. Cut the Battery Connector (Unless its a B2 Connector) and replace it with a B2 connector.