

Team #:	18280	Team Name:	Hot Wheelz Hot Seniorz
Date:	1/29/18	Document Owner:	Rachel Heise
Revision #:	4		

STATUS	SYSTEM	PART DESCRIPTION	MSD BOM			LINK	UNIT COST	QTY	SHIPPING	PURCHASE INFORMATION			
			PART NAME	VENDOR						LINK TO PO	DATE OF PURCHASE	METHOD OF PAYMENT	PRO CARD PURCHASE
Received	Programming	CAN bus adapter for RPi	PICAN 2 - CAN Interface for Raspberry Pi	Copperhill Technologies	<a href="http://copperhilltech.com/pican">http://copperhilltech.com/pican</a>	\$47.95	1	0	47.95	<a href="https://docs.google.com">https://docs.google.com</a>	11/14/17	Pro-card	November
Received	Programming	Microcontroller	Raspberry Pi Model 3B	PiShop.us	<a href="https://www.pishop.us/product">https://www.pishop.us/product</a>	\$34.95	1	0	34.95	<a href="https://docs.google.com">https://docs.google.com</a>	10/26/17	Pro-card	October
Received	Programming	Pi requires SD card to boot from	Class 10 microSD Card With Raspbian - 16GB	PiShop.us	<a href="https://www.pishop.us/product">https://www.pishop.us/product</a>	\$9.95	1	0	9.95	<a href="https://docs.google.com">https://docs.google.com</a>	10/26/17	Pro-card	October
Received	Programming	Pi needs a power supply	TS875DV - Power Supply, White, Raspberry Pi, Micro USB,	Newark	<a href="http://www.newark.com/stontr">http://www.newark.com/stontr</a>	\$8.71	1	0	8.71	<a href="https://docs.google.com">https://docs.google.com</a>	10/26/17	Pro-card	October
Approved	Electrical	Power supply for Bench GLV things	BMOUO 12V 30A DC Universal Regulated Switching Power S	Amazon	<a href="https://www.amazon.com/BMO">https://www.amazon.com/BMO</a>	\$19.99	1		19.99				
Received	Electrical	DCDC Converter for pi supply	UBEC DC/DC Step-Down (Buck) Converter - 5V @ 3A output	Adafruit	<a href="https://www.adafruit.com/prod">https://www.adafruit.com/prod</a>	\$9.95	2	0	19.90	<a href="https://docs.google.com">https://docs.google.com</a>	11/12/17	Pro-card	November
Received	Mechanical / Cart	Cart base peg stock	Surplus-wood (see edge)	Home Depot/ global industrial	<a href="http://www.globalindustrial.com">http://www.globalindustrial.com</a>	\$31.98	1	0	31.98	<a href="https://docs.google.com">https://docs.google.com</a>	1/18/18	Pro-card	January
Received	Mechanical / Cart	Cart wall stock	Surplus-wood (see edge)	Home Depot	Pick up in store	\$95.94	1	0	95.94	<a href="https://docs.google.com">https://docs.google.com</a>	1/18/18	Pro-card	January
Received	Electrical	2/0 Wire for HV permanent Wiring	2/0 Welding Cable Class K	Wire and Cable Your Way	<a href="https://www.wireandcableyour">https://www.wireandcableyour</a>	2.89	20	0	57.80	<a href="https://docs.google.com">https://docs.google.com</a>	1/5/18	Pro-card	January
Canceled	Mechanical / Cart	Mounting brackets	L-brackets (20)	Home Depot	<a href="https://www.homedepot.com/g">https://www.homedepot.com/g</a>	\$9.00	2		18.00				
Approved	Electrical - sensor circuitry	ADC for voltage measurements	IC ADC 12BIT I2C 3.3KSPS 10MSOP	Digikey	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$2.54	10		25.37				
Received	Electrical - sensor circuitry	SOIC-12 Breakout Boards	SMT Breakout PCB for SOIC-12 or TSOP-12 - 6 Pack!	Adafruit	<a href="https://www.adafruit.com/prod">https://www.adafruit.com/prod</a>	\$4.95	3	0	14.85	<a href="https://docs.google.com">https://docs.google.com</a>	11/12/17	Pro-card	November
Approved	Electrical - sensor circuitry	Opamps for GLV voltage measurements	IC OPAMP GP 1.5MHZ 8DIP	Digikey	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$0.64	20		12.80				
Approved	Electrical - sensor circuitry	Opamps for TS voltage measurements	Isolation Amplifiers 4.25kV PEAK Iso Amp	Mouser Electronics	<a href="https://www.mouser.com/Prod">https://www.mouser.com/Prod</a>	\$4.76	5		23.80				
Received	Electrical	Thermistor for Temp Measurement	US Sensor/Littelfuse Inc 103JG1K	Digikey	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$0.37	15	0	5.49	<a href="https://docs.google.com">https://docs.google.com</a>	12/4/17	Pro-card	December
Received	Electrical	GLV Current Sensor	LEM USA Inc. HO 100-S	Digikey	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$18.90	1	0	18.90	<a href="https://docs.google.com">https://docs.google.com</a>	12/4/17	Pro-card	December
Approved	Electrical	prototype boards	BREADBOARD GEN PURPOSE (NPTH)	Digi-Key	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$4.95	3		14.85				
Received	Mechanical / Cart	Base of cart	Wood Platform truck 60x30	Uline	<a href="https://www.uline.com/Product">https://www.uline.com/Product</a>	\$274.00	1	75.01	349.01	<a href="https://docs.google.com">https://docs.google.com</a>	1/13/18	Pro-card	January
Waiting	Mechanical / Cart	Motor shelf support	Hudson Bearings 1"	global industrial	<a href="http://www.globalindustrial.com">http://www.globalindustrial.com</a>	\$3.00	1		3.00				
Received	Mechanical / Cart	Shelf Runners	Single slotted standard	McMaster	<a href="https://www.mcmaster.com/#1">https://www.mcmaster.com/#1</a>	\$6.25	10		62.50	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Shelf arms	16" Deep steel shelf bracket	McMaster	<a href="https://www.mcmaster.com/#1">https://www.mcmaster.com/#1</a>	\$3.85	20		77.00	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Latch	Rotating-eye padlock	McMaster	<a href="https://www.mcmaster.com/#1">https://www.mcmaster.com/#1</a>	\$11.00	1		11.00	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Sliders pt 1	Support Rail for Track Guide Rail (12.5")	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$37.76	2		75.52	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Sliders pt 2	.516" Wide Guide Rail for track roller (12.5")	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$30.88	2		61.76	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Sliders pt 3	Track roller carriage	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$139.29	2	15.86	294.44	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	L-bracket	Zinc plated steel corner bracket	McMaster	<a href="https://www.mcmaster.com/#1">https://www.mcmaster.com/#1</a>	\$1.23	25		30.75	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Shelf arms (big ones)	16" Deep steel shelf bracket double	McMaster	<a href="https://www.mcmaster.com/#1">https://www.mcmaster.com/#1</a>	\$10.15	6		60.90	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Shelf runners (big ones)	Double slotted standard	McMaster	<a href="https://www.mcmaster.com/#1">https://www.mcmaster.com/#1</a>	\$7.02	2		14.04	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Received	Mechanical / Cart	Swivel casters w/ brake	H-3327SWB	Uline	<a href="https://www.uline.com/Product">https://www.uline.com/Product</a>	\$27.00	2	0	54.00	<a href="https://docs.google.com">https://docs.google.com</a>	1/13/18	Pro-card	January
Received	Mechanical / Cart	6-32 screws for sliders	92220A146	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$7.46	2		14.92	<a href="https://docs.google.com">https://docs.google.com</a>	1/12/18	Pro-card	January
Approved	Electrical	VSSOP breakout board	VSSOP-8 TO DIP-8 SMT ADAPTER	Digi-Key	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$3.19	5		15.95				
Approved	Electrical	GLV Source Switch	SWITCH TOGGLE DPDT 30A 125V	Digi-Key	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$23.46	1		23.46				
Received	Electrical	GLVMS/TSMS	Pico Battery Disconnect Switches S575PT	Summit Racing Equipment	<a href="https://www.summitracing.com">https://www.summitracing.com</a>	\$14.97	2	9.95	39.89	<a href="https://docs.google.com">https://docs.google.com</a>	1/23/18	Pro-card	January
Approved	Electrical	BOTS	SWITCH TOGGLE SPST 20A 277V	Digi-Key	<a href="https://www.digikey.com/prod">https://www.digikey.com/prod</a>	\$3.58	2		7.16				
Approved	Electrical	DCDC Converter	Amamax® Wall Adapter Power Supply - 12V DC 2A, 5.5mm	Amazon	<a href="https://www.amazon.com/Am">https://www.amazon.com/Am</a>	\$7.99	1		7.99				
Received	Mechanical / Cart	Wood screws	Phillips flat head: #9 3/4 Long	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$4.39	1		4.39	<a href="https://docs.google.com">https://docs.google.com</a>	1/23/18	Pro-card	January
Received	Mechanical / Cart	Wood screws	Phillips flat head: #8 3/4 Long	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$4.48	1		4.48	<a href="https://docs.google.com">https://docs.google.com</a>	1/23/18	Pro-card	January
Received	Mechanical / Cart	Wood screws	Phillips flat head: #10 3/4 Long	McMaster	<a href="https://www.mcmaster.com/#9">https://www.mcmaster.com/#9</a>	\$6.83	1		6.83	<a href="https://docs.google.com">https://docs.google.com</a>	1/23/18	Pro-card	January