Team	Part Name	Purpose	Link	Total Cost (USD)	Quantity	Comments
Electrical	12.8V 50Ah LiFePO4 Battery	Docking station accumulator	Link	$160	1	
Electrical	12.8V 10Ah LiFePO4 Battery	Rover accumulator	Link	$50	1	
Firmware	NRF24L01+PA+LNA Transciever Pair	Communicate radio signals from the remote to the Rover	Link	$8.49	1	Comes with two transcievers
Firmware	Arduino Nano Every	Microcontroller that interfaces with buttons/transciever on remote	Link	$13.70	1	
Firmware	Mechanical Buttons	Buttons on the microcontroller that send different signals to the transciever	Link	$6.50	1	We can get a pack with more buttons, but color coding might be helpful
Electrical	GR-EP-45ENC 50.2:1	Drivetrain motors with encoders for odometry	Link	$168.48	2	
Electrical	N/a	100W Monocrystalline Solar Panel	Link	$80	1	
Electrical	N/a	6AWG 13" Battery Connector Cables	Link	$13.63	1	
Electrical	Powerwerx DC-DC-8A	Battery DC-DC Charge Controller	Link	$70	1	
Electrical	N/a	Eco-Worthy Solar Charge Controller	Link	$109		Decided that it was prudent to go with separate units for the solar and the battery charge controllers
Mechanical	N/a yet	5V DC Brushless Motor for Chain Driving	Link	$15	1	Estimated Price
Mechanical	53CM75	Primary Drive Wheels	Link	$26.78	2	
Mechanical	Plastic Sheeting	Waterproofing Cone Extension	Link	$7.00	1	
Mechanical	Air Vents	Venting Hot Air	Link	$25.99	3	
Mechanical	Swivel Wheels	Non Driven Wheels / Balance	Link	$17.08	1	
Mechanical	Straight Brackets	Stuctural Support for the Rover	Link	$33	2	
Mechanical	N/a	Docking Station Body Materials Estimation	N/a yet	$100		35 square feet of aluminum sheeting (estimated 1/16" thickenss) (Estimated Price)
Mechanical	N/a	Docking Station Frame Work	N/a yet	$100		
Electrical	Pololu Dual G2 High Power Motor Driver 24v14	Drivetrain Motor Controller	Link	$60		
Firmware	Raspberry Pi 4 Model B 4GB	Navigation	Link	$55.00	2	
Electrical	Sleepy Pi 2 - MicroUSB	Power management	Link	$54.95		
Firmware	Arduino Mega 2560 Rev3	Controller	Link	$48.40		
Firmware	Raspberry Pi Camera Board v2 - 8 Megapixels	Navigation CV odometry	Link	$29.95		
Firmware	ICE Tower Raspberry Pi 4 CPU Cooler	Navigation	Link	$16.99		
Firmware	MPU-6050 Gyroscope	Encoder odometry support	Link	$6.49		
Electrical	N/a	Vehicle Sensing Array Placeholder		$300		Placeholder with rough estimate of cost for vehicle sensor array. Precise units have not been determined yet, see vehicle sensing documentation for lists of the products under current consideration
			Running Total:	**$1,576**		