Get to Peak

Movement

* Motors

1. Torque required
2. Power required [distance it’ll travel]
3. Brake on descent

* Wheels → treads?

1. Size
2. Traction
3. How many?
4. suspension

* Battery

1. For motors

* Sensors for raspberry pi

1. GPS
2. IMU
3. Gyroscope
4. magnetometer

Locate EB with Camera

Camera (2 cameras: one for long view and one for close view)

* **Data constraints**

1. FOV vs Rotating
2. Camera output? → resolution

* Protect lens
* Where on rover
* Focus/Zoom

General

* Weight (approximate initially) → go off price
* Size → ½ trail width?

**Tentative Rover Set Up**

Dimensions 18 in by 30 in

8” diameter wheels:

[Ironton 8in. Pneumatic Wheel and Tire-- 250-Lb. Capacity, Knobby Tread | Northern Tool](https://www.northerntool.com/products/ironton-8in-pneumatic-wheel-and-tire-250-lb-capacity-knobby-tread-51042?cm_mmc=Bing-pla&utm_source=Bing_PLA&utm_medium=Material%20Handling%20%3E%20Casters%20%3E%20Replacement%20Caster%20Wheels&utm_campaign=Ironton&utm_content=51042&cmpid=566362033&agid=1184175066654971&tgtid=pla-4577610510241970&prdid=51042&ogmap=SHP%7CPLA%7CBING%7CSTND%7Cc%7CSITEWIDE%7C%7CMaterial%20Handling%20-%20Owned%20Brands%20-%20SC%7CMaterials%20Handling%7C%7C566362033%7C1184175066654971&gclid=d8d46b4dba0a16f164a10ce6453ea2a8&gclsrc=3p.ds&msclkid=d8d46b4dba0a16f164a10ce6453ea2a8)

[All Terrain Robot Wheels and Shafts](https://www.superdroidrobots.com/store/robot-parts/mechanical-parts/wheels-shafts/all-terrain-wheel-shafts)

[8 Inch Caster Wheels](https://www.amazon.com/Industry-All-Terrain-Bearing-1200lbs-Logging/dp/B0D733NPNG/ref=sr_1_4?crid=1GHIFFY85KH2F&dib=eyJ2IjoiMSJ9.Bu_0efspIgXBjss_cQMJp3NW1VxqwxLlGjuAJgg7ClVfBO--Ldf6FryNL7rjslRvh-MhcmpuEIq9AJjEzL11sH2Z8h6q-6P3infCiyFNpJtw9QsQlufPqBw5GynrgpvWwJkG0iswuIJmzSSwbNqXtIz-EGFCRwNgMhJ_evm92vujPfqoVuLIkWkONA03n-9mf-pTXNv-9ezirkzPaAAfqbDO1wZZZyTadd6HeqBCdjAlWZDSN1UjfmscqRTTnyzsTIt3b3qyAeNhnl_A6UDJaQqhpA6xVabtCCqeAYbmfwH4Biq-FziLUosz7QEYVd63WaT5lszBtMOMX7b9BOhve1tMcpmYjrwu8QhdnJPhrAF7OR1jhvZuE_57O6w_33cZpbEzgfNiPsjK8VO6NrSq0p4xb9T7e1VA2fTHMv9hrg6YXWKhfCO3DJ22OKrLJsEL.408eX1C8CeLm7uhJ3s4YASJmxHyRcvjBf65j1KcEudI&dib_tag=se&keywords=8+in+diameter+all+terrain+wheels+for+rc+car&qid=1739325324&sprefix=8+in+diameter+all+terrain+wheels+for+rc+car%2Caps%2C126&sr=8-4)

Batteries (lithium ion 12V)

[Amazon.com: XZNY Compact 12V 18Ah LiFePO4 Lithium Battery, 4000+ Cycles 12 Volt Lithium Battery Built-in 20A BMS, 12V 18Ah Battery for Garmin Fish Finder Battery, Power Wheels, Mobility Scooter, Lighting Supply : Health & Household](https://www.amazon.com/XZNY-LiFePO4-Rechargeable-Suitable-Emergency/dp/B09QKD4G6L/ref=asc_df_B09QKD4G6L?tag=bingshoppinga-20&linkCode=df0&hvadid=80539352771018&hvnetw=o&hvqmt=e&hvbmt=be&hvdev=c&hvlocint=&hvlocphy=&hvtargid=pla-4584138876835981&th=1)