

# GEARBOTS STEM Academy: Engineering Design

Here is the list of parts for the "autonomous truck project" that we will be working on over the next several years. We would like the students to have purchased these parts before the start of the September 2020 course. Feel free to order the parts now if you want. To avoid international shipping charges, you might want to consider shipping the US based parts to a Sumas WA mailbox for pickup. You must order exactly what is on this list. No substitutes.

## Order from the internet - US based:

One DRV8835 Dual Motor Driver Carrier  
<https://www.pololu.com/product/2135>

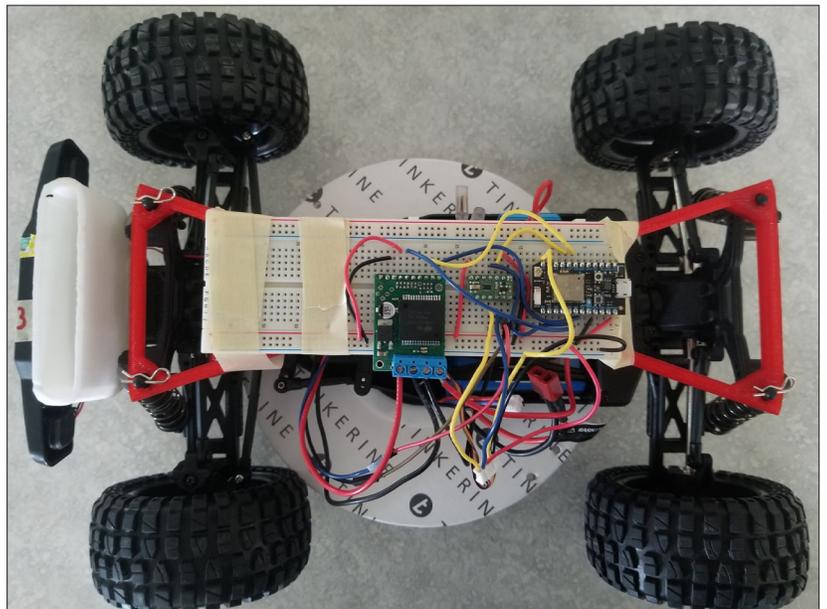
One VNH5019 Motor Driver Carrier  
<https://www.pololu.com/product/1451>

One Photon with Headers  
<https://store.particle.io/products/photon>  
(order the version with headers)

## Order from Canadian Collectors Club:

Located at #1 - 33232 South Fraser Way  
(t) 1.800.332.1373 or (t) 604.870.9271  
- 10% discount - mention that this is for the GearBots STEM Academy project with Jeremy Ellis

One RC Truck from - RC-Pro Shredder  
Truck - approx. \$169.00 version  
- You will need to order exactly this version - you cannot use another RC truck for this project



Project review on YouTube: <https://bit.ly/2IYvfQC>

## Got an older phone?

This project will also require the use of a phone with a camera. This could be a deactivated phone you have around the house after a recent upgrade. This will in no way damage the device. We will be using a browser through wifi.

## For Sale:

We plan to sell two of the complete kits that we ordered to start the academy off with. We will sell them in December once the fall course is over. They are up for grabs for \$200.00 cash (\$50 below our cost). They will be sold on a "first come first served" basis - please send email to [info@gearbots.org](mailto:info@gearbots.org) to reserve one.

