

ROAR – V6 Breakdown



Hardware

- Jetson Nano – Xavier based GPU with ARM x57 processor 4GB RAM
- Arduino Nano – adds capability to add sensors to vehicle
- Mipi Camera – Acts as Rear View Mirror
- Arudino Nano Break out Board
- Intel RealSense D435i
- DC to DC Step Down
- PCA 9685 Board
- SD Card
- USB Splitter
- 7.4 Volt Lipo



Traxxas 4 Tec

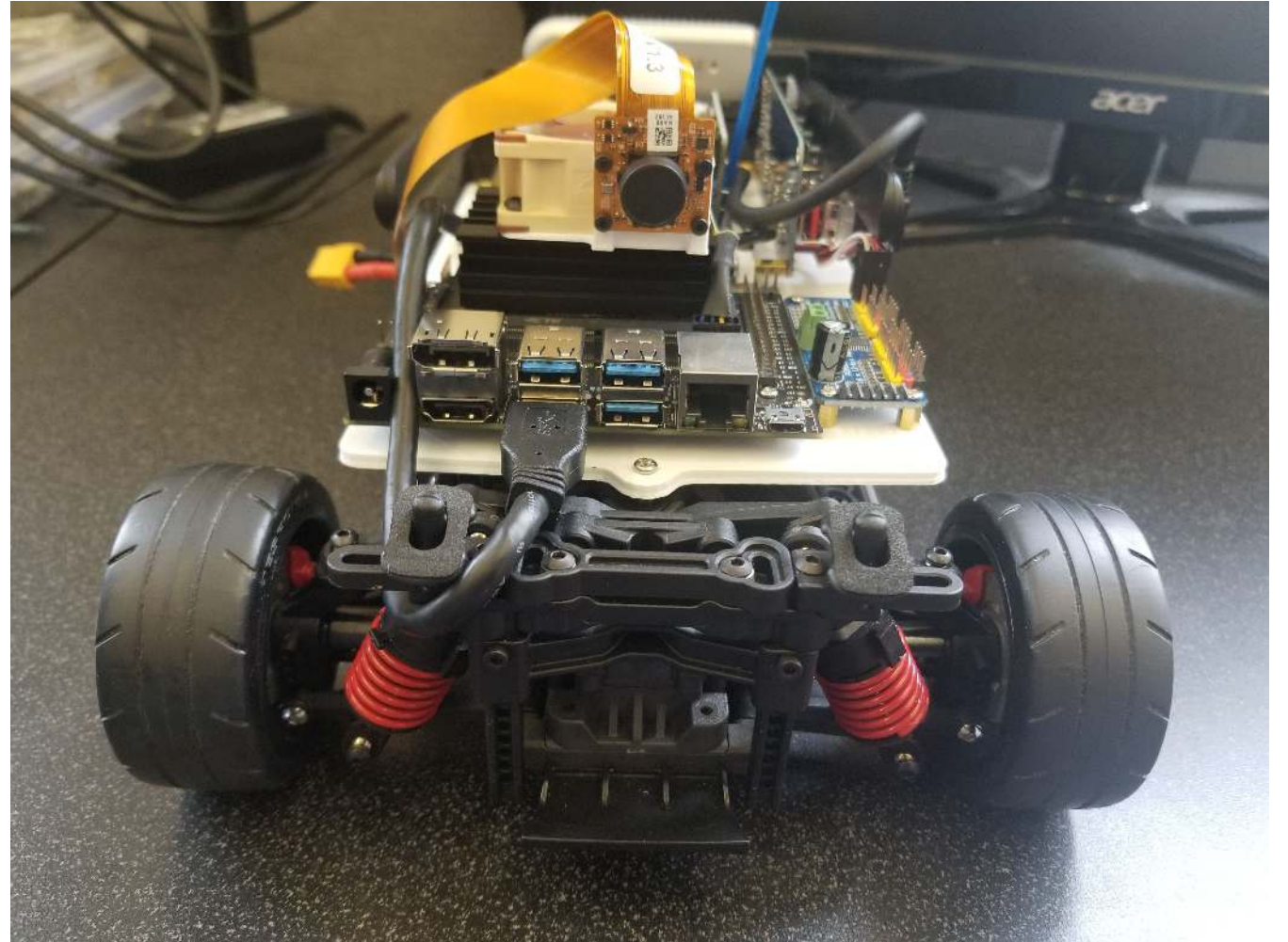
Simple to modify and add chassis plate to make car autonomous.

- Length: 379mm
- Height: 129mm
- Front and rear differential drive train
- Wheelbase: 10.1 inches
- Wheel diameter: 53mm



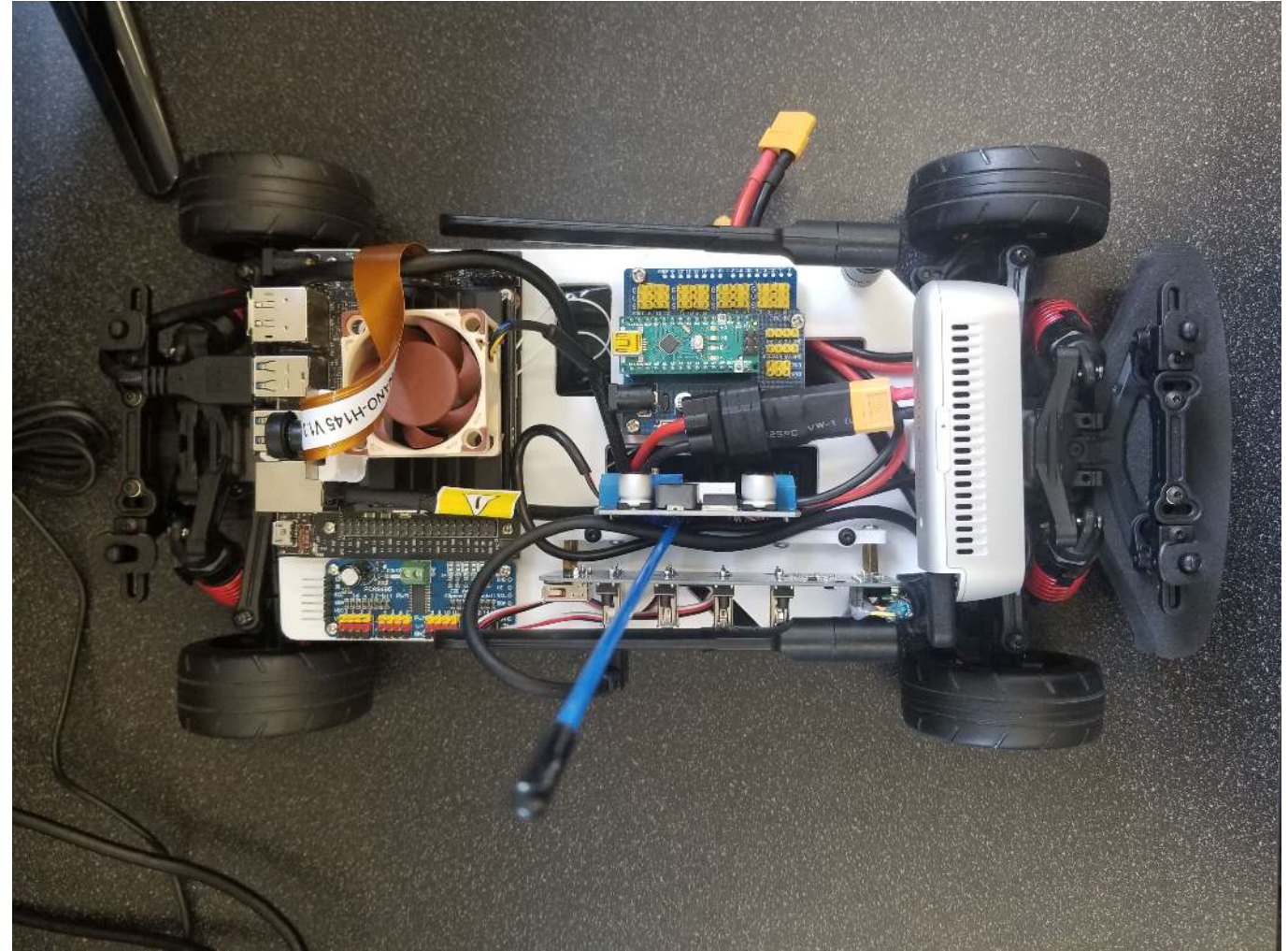
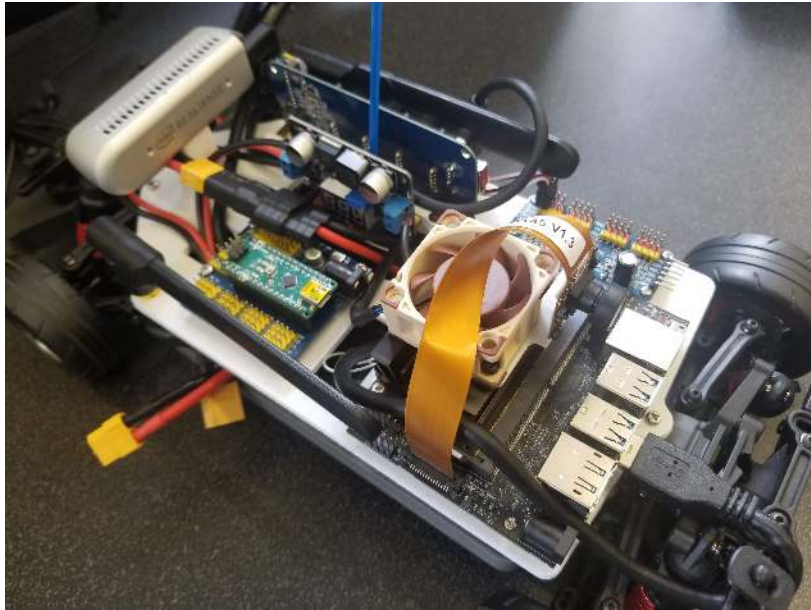
Rear View

- Mipi Camera facing rear.
- Ports still accessible from rear. Only uses one USB 3.1 for data. No extra power drawn from Jetson Nano.



Top Down View

- Key that hardware is easy to access and use.



Hardware – Easy Assembly

