

Car assembly



Overview:

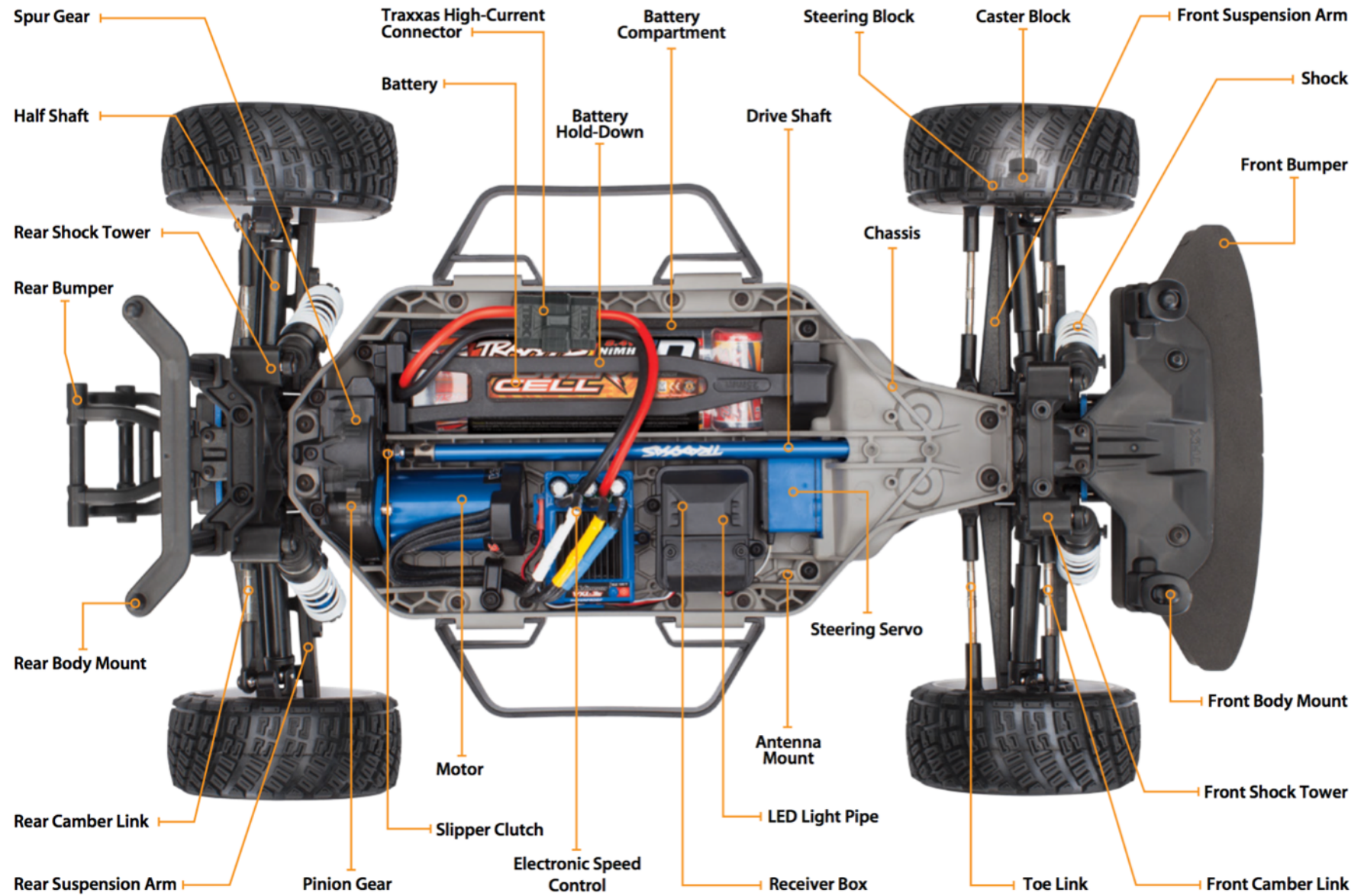
**Perception
Planning
Control**

Robot Operating System

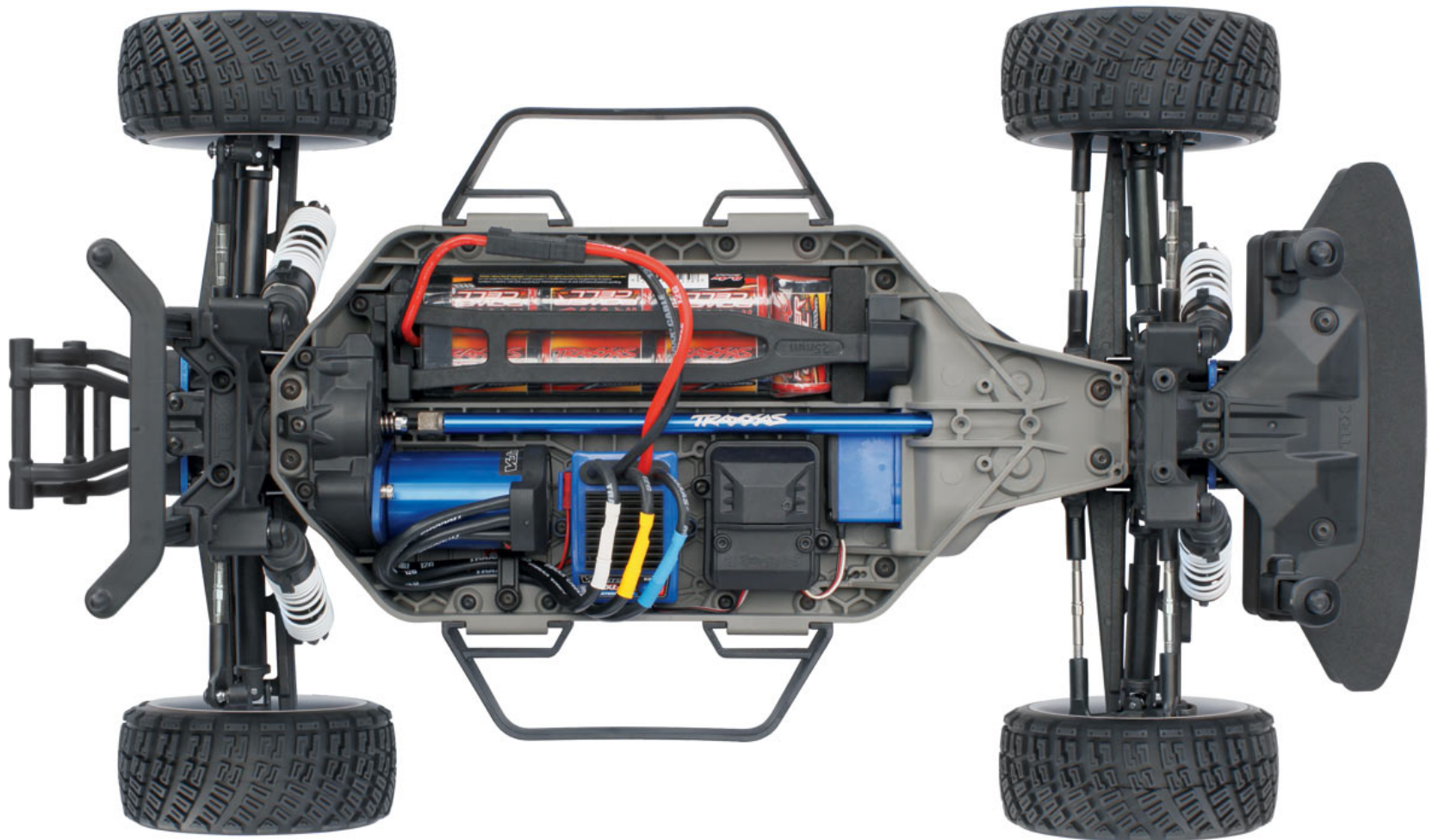
Practice Session 1:

Driving using Keyboard controls

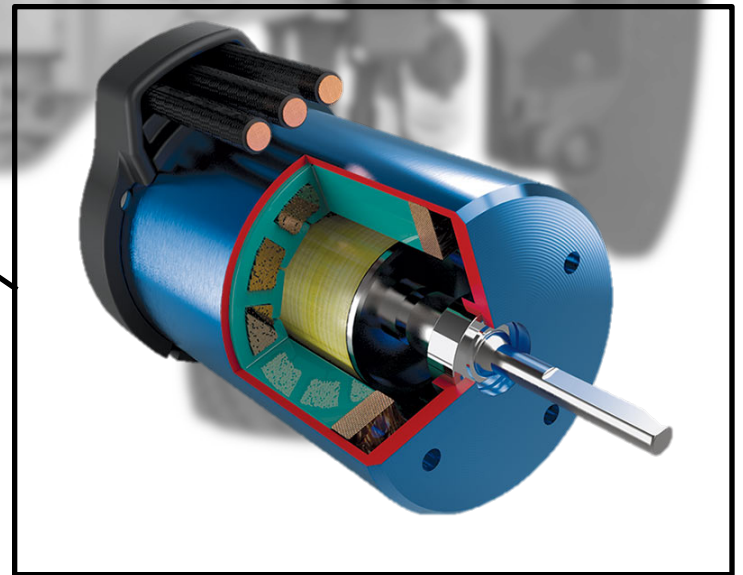
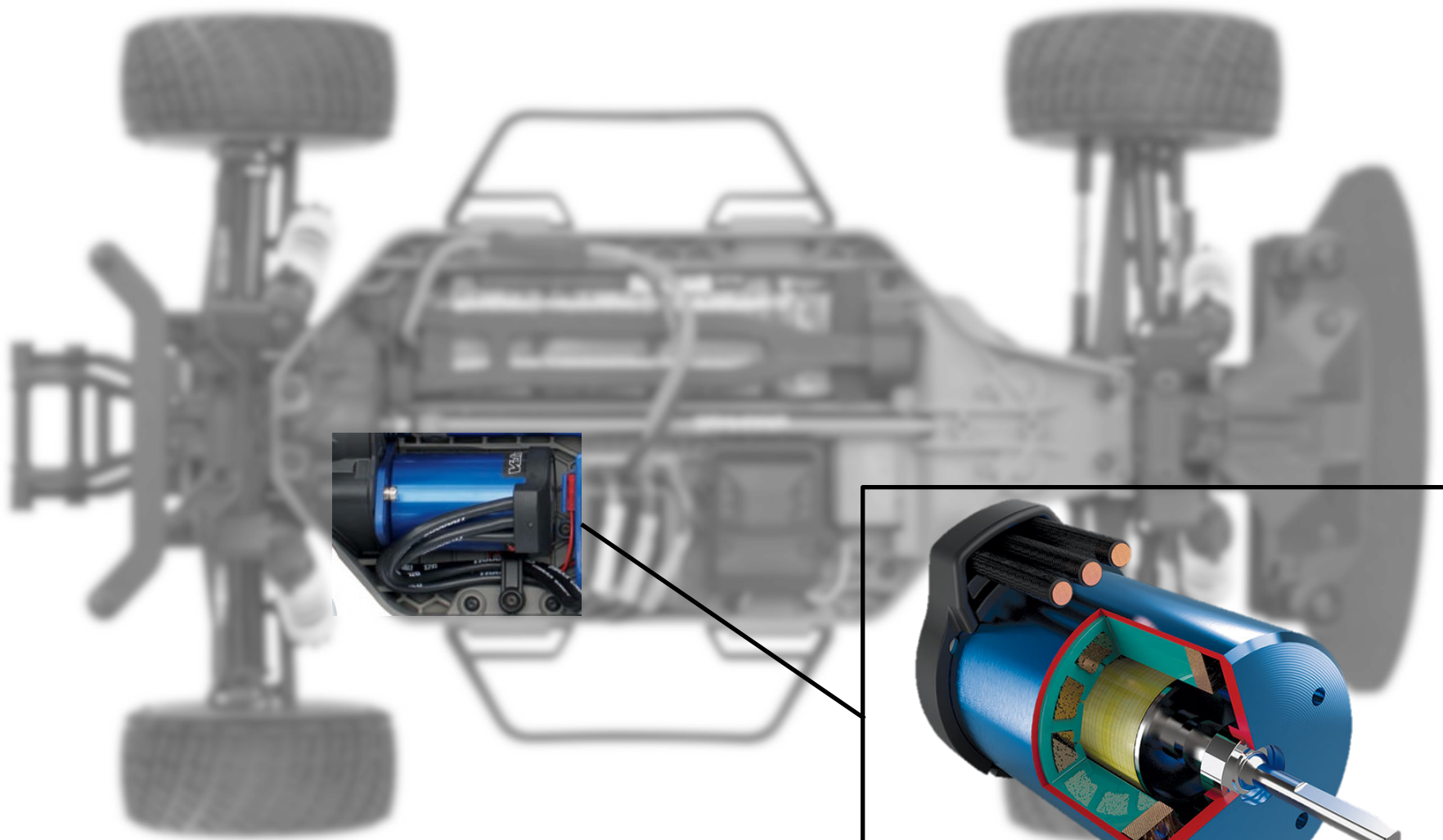
Traxxas 1/10 scale RC race car



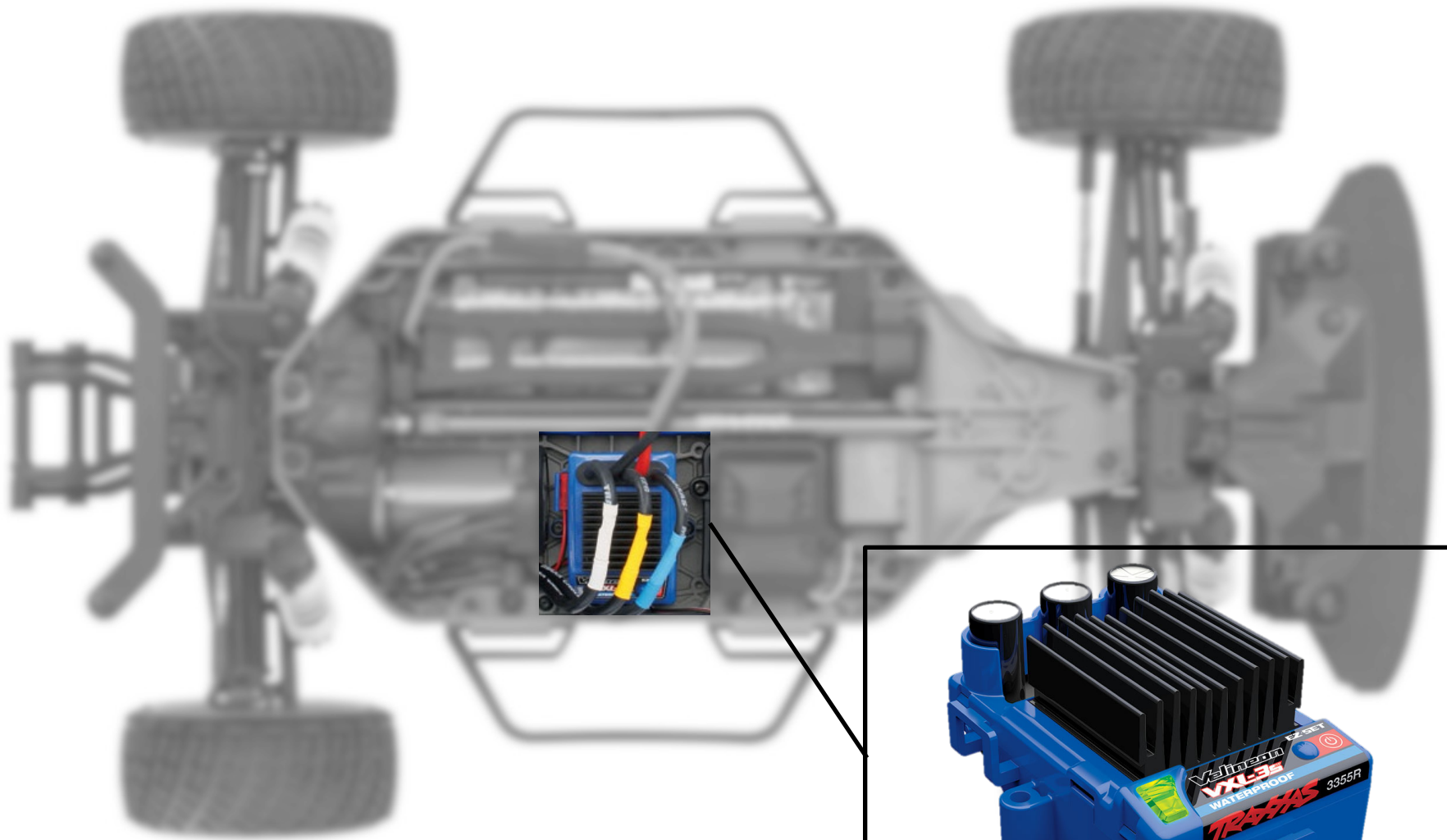
Traxxas 1/10 scale RC race car



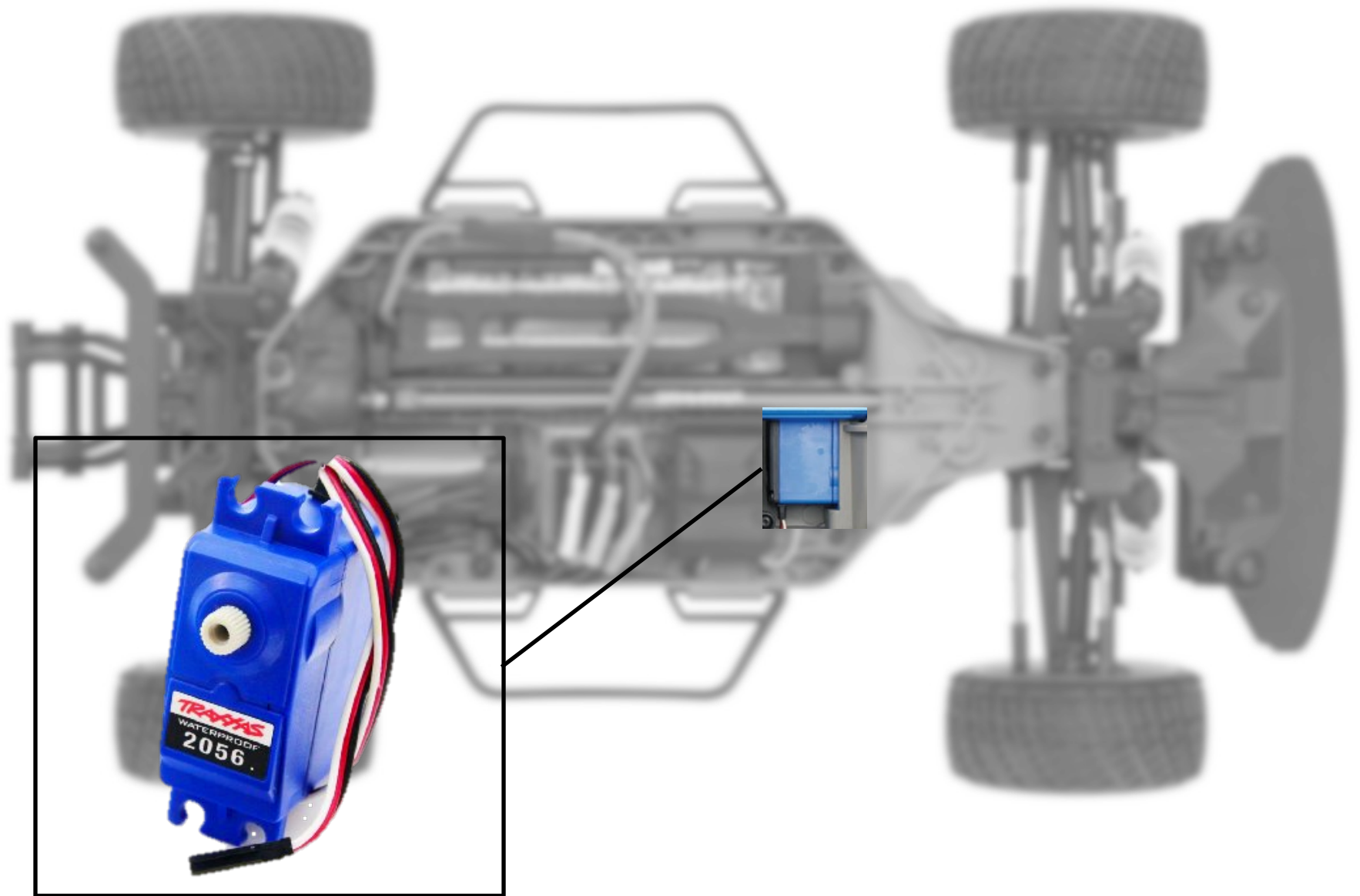
Brushless DC motor



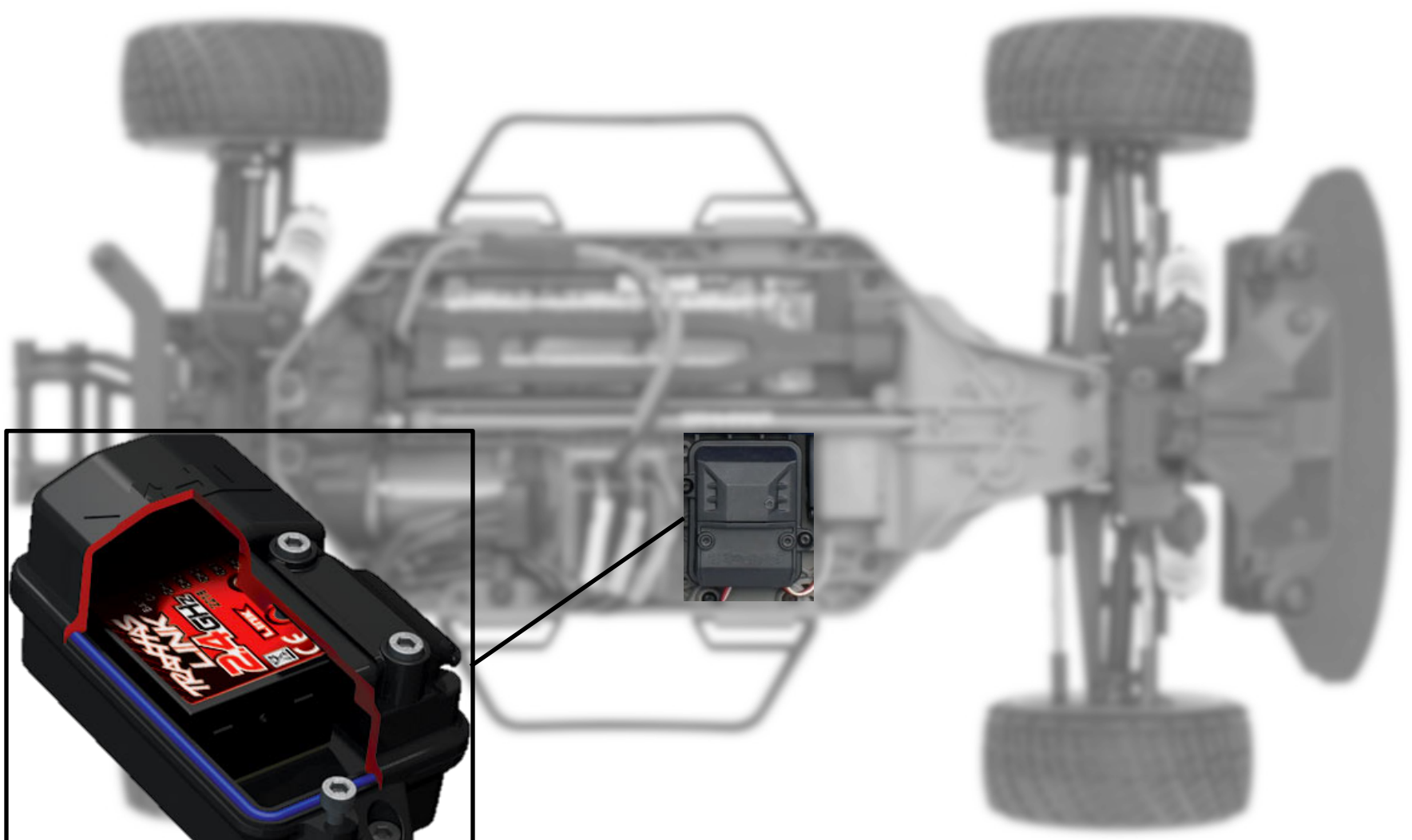
Electronic Speed Control (ESC)



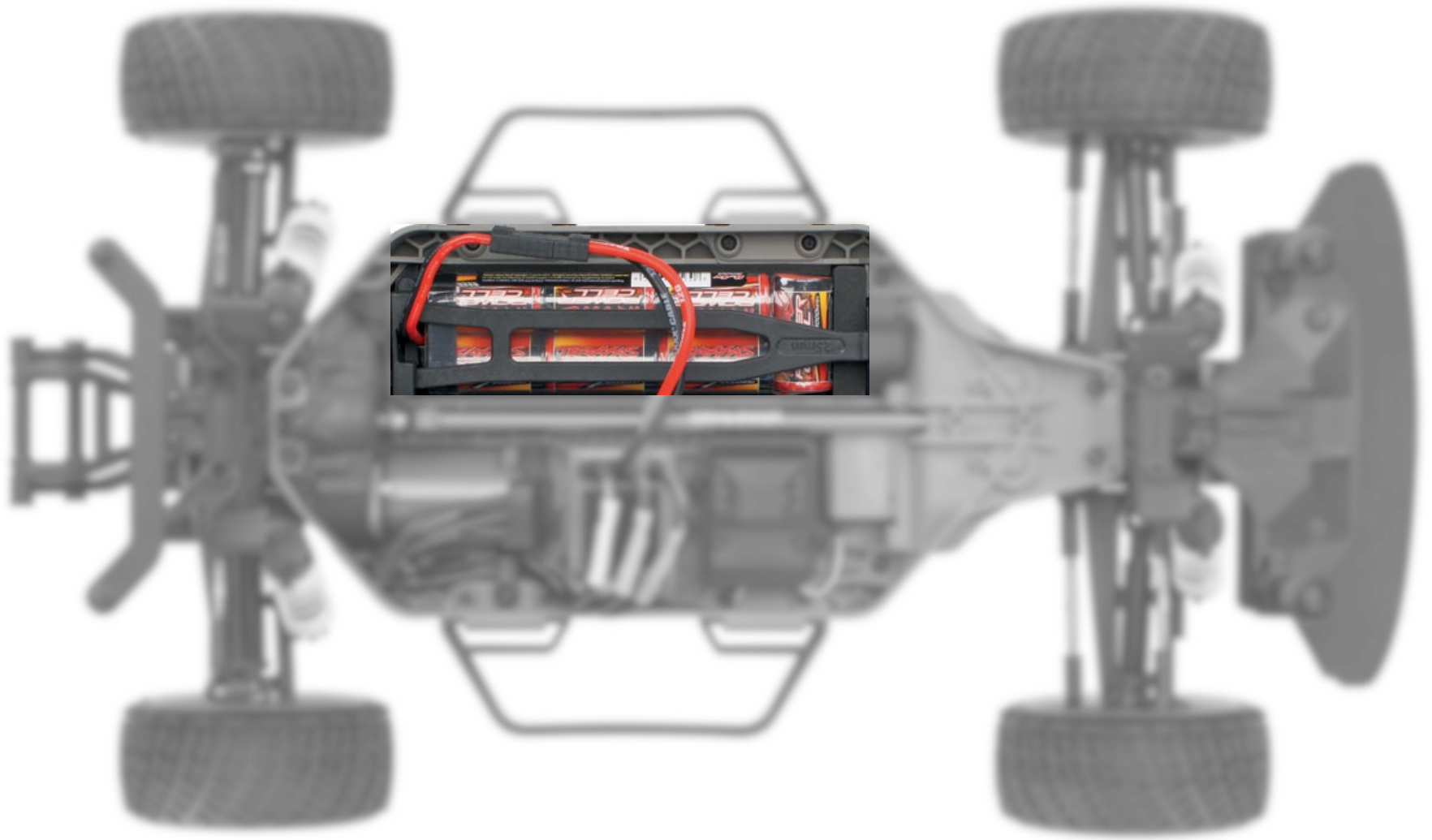
Servo motor for steering



Radio receiver



Battery pack



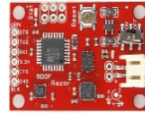
Sensor Integration



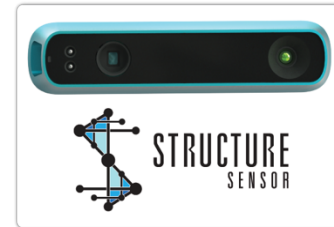
LiDAR



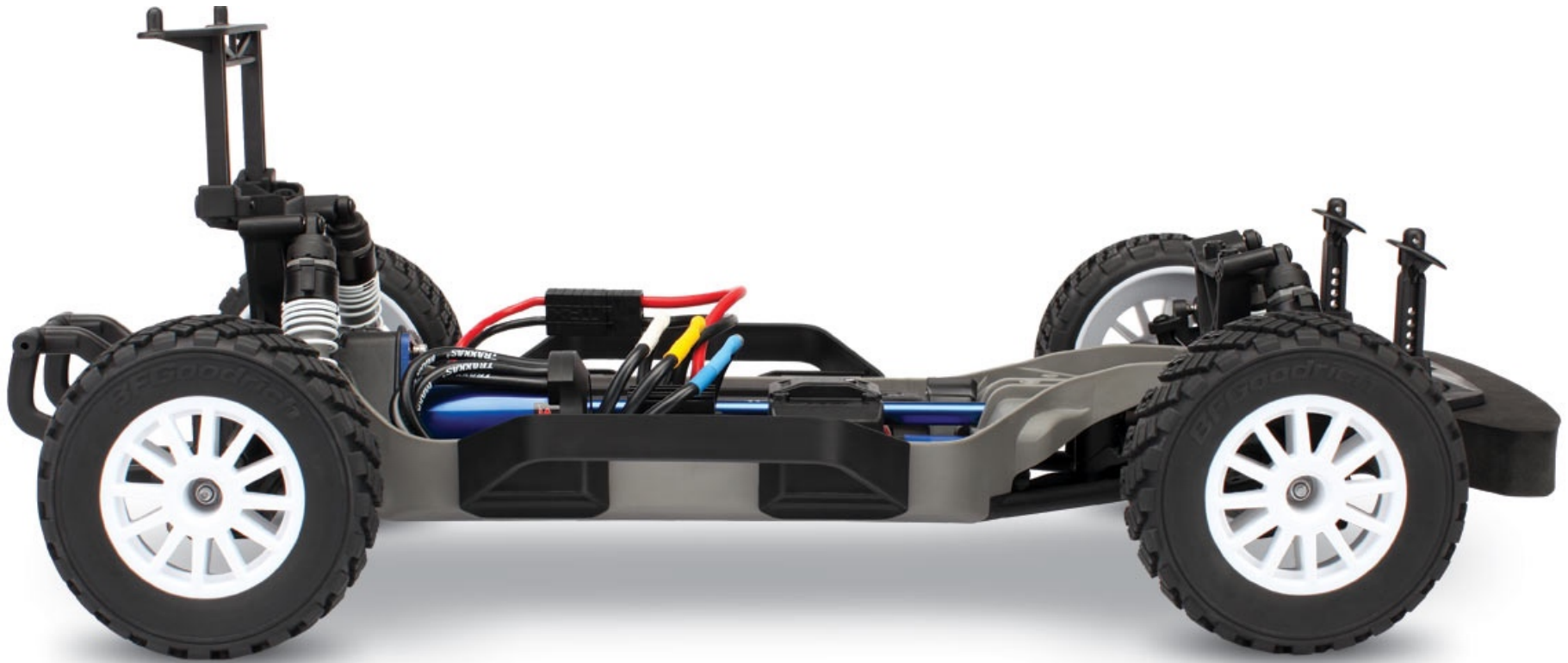
Camera



IMU



IR Depth Cameras



Sensor Integration



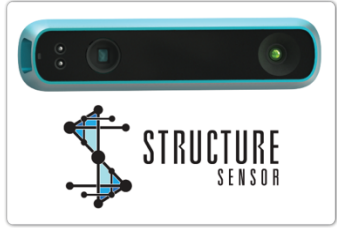
LiDAR



Camera



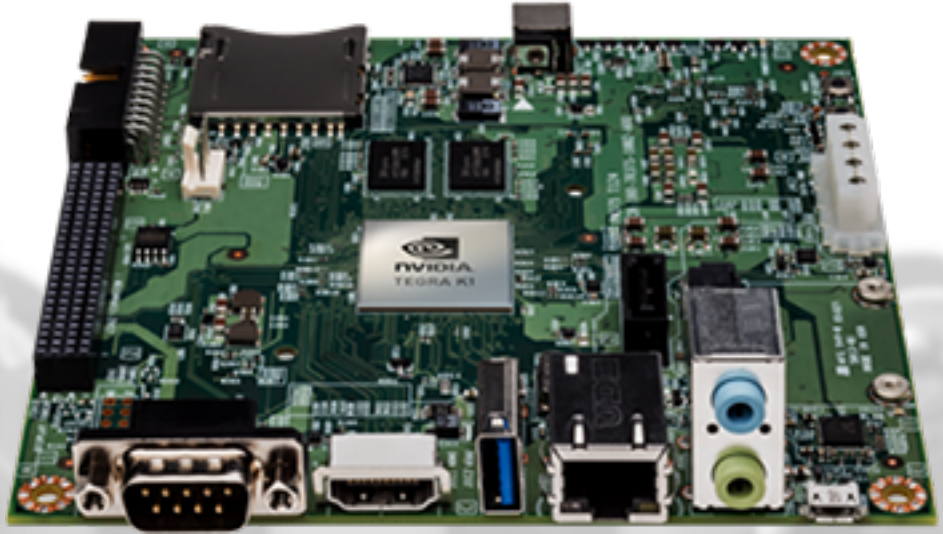
IMU



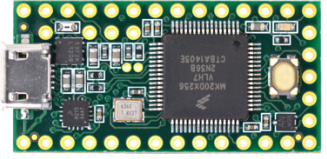
IR Depth Cameras



Wi-fi Telemetry



Onboard Computer

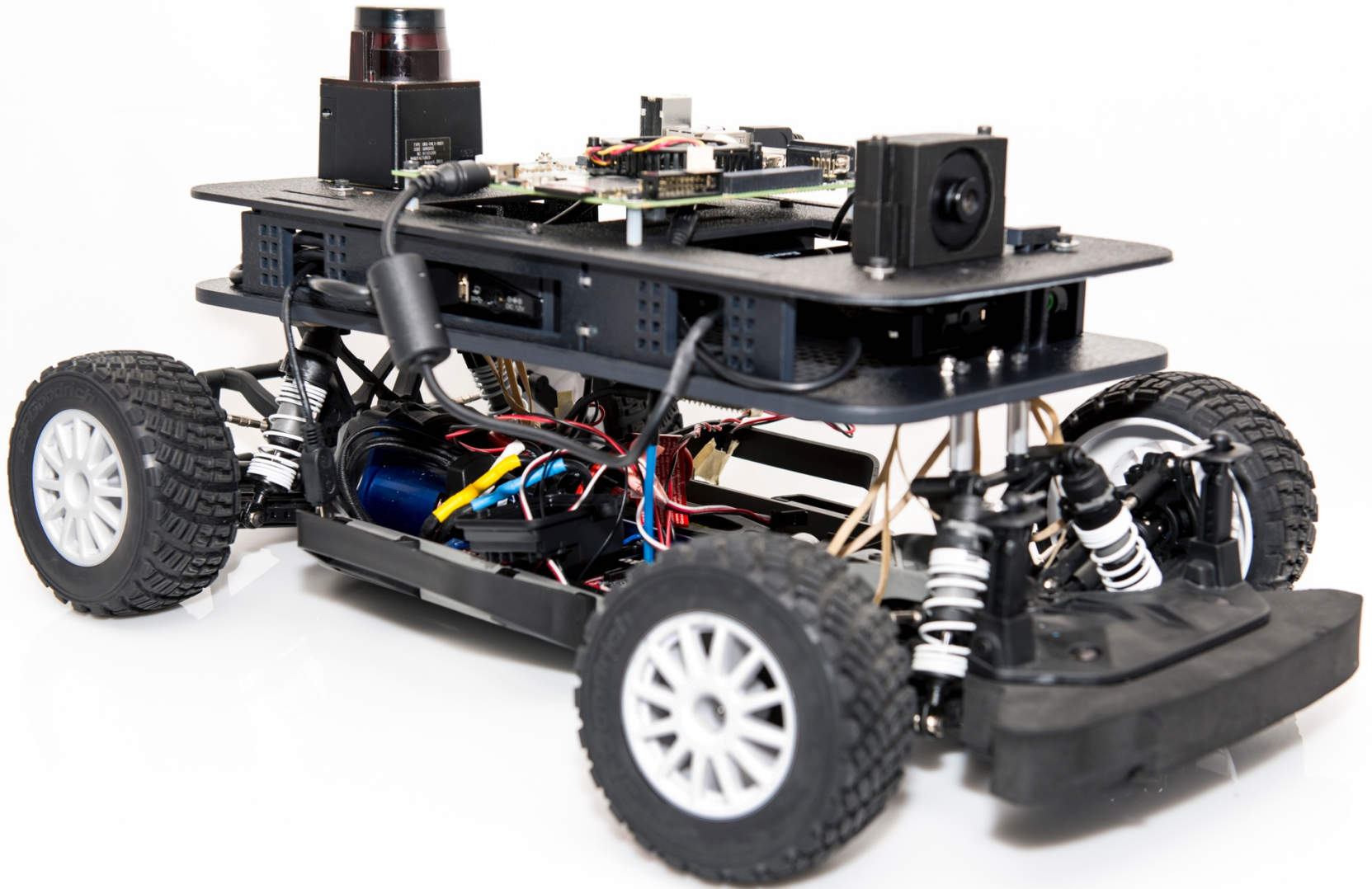


Motor Controller

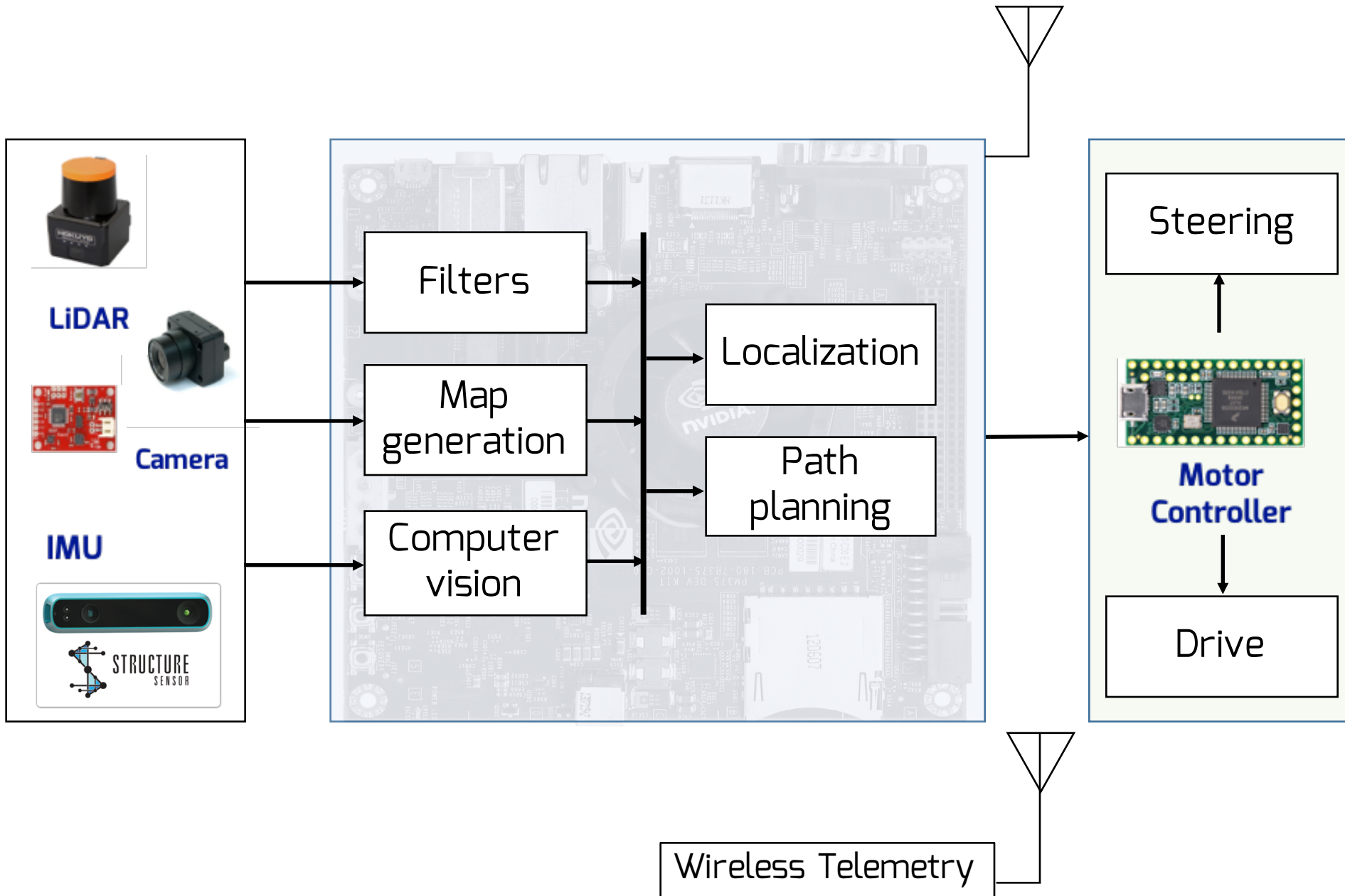


Battery

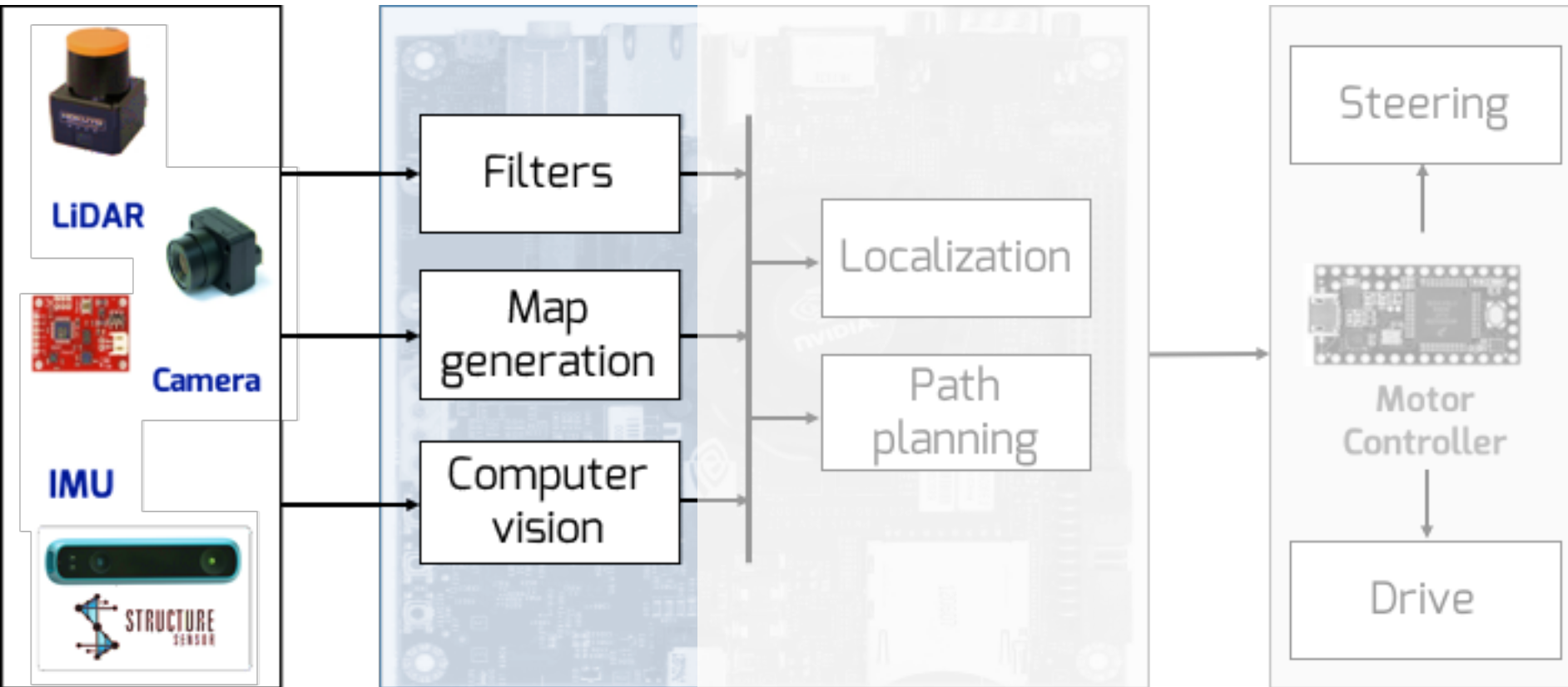
~~Ready to race!~~ Not quite..



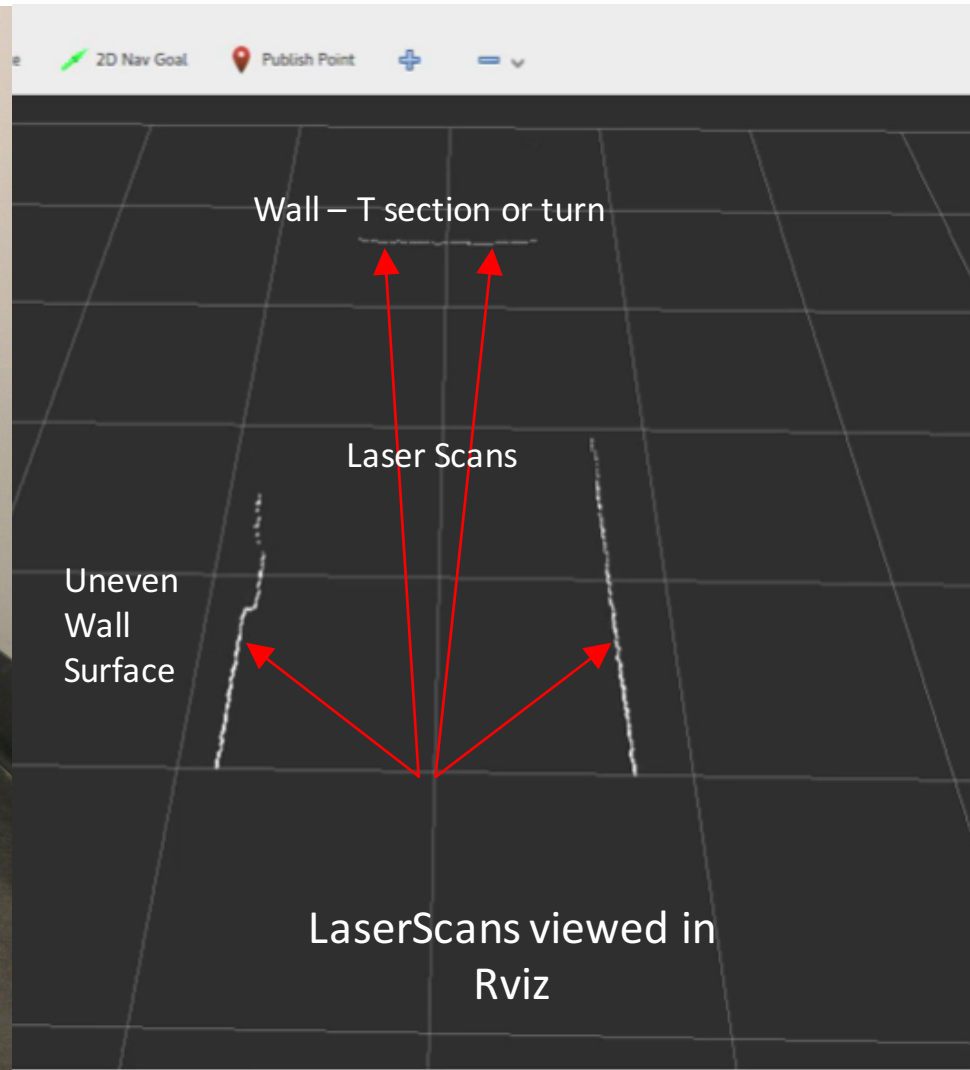
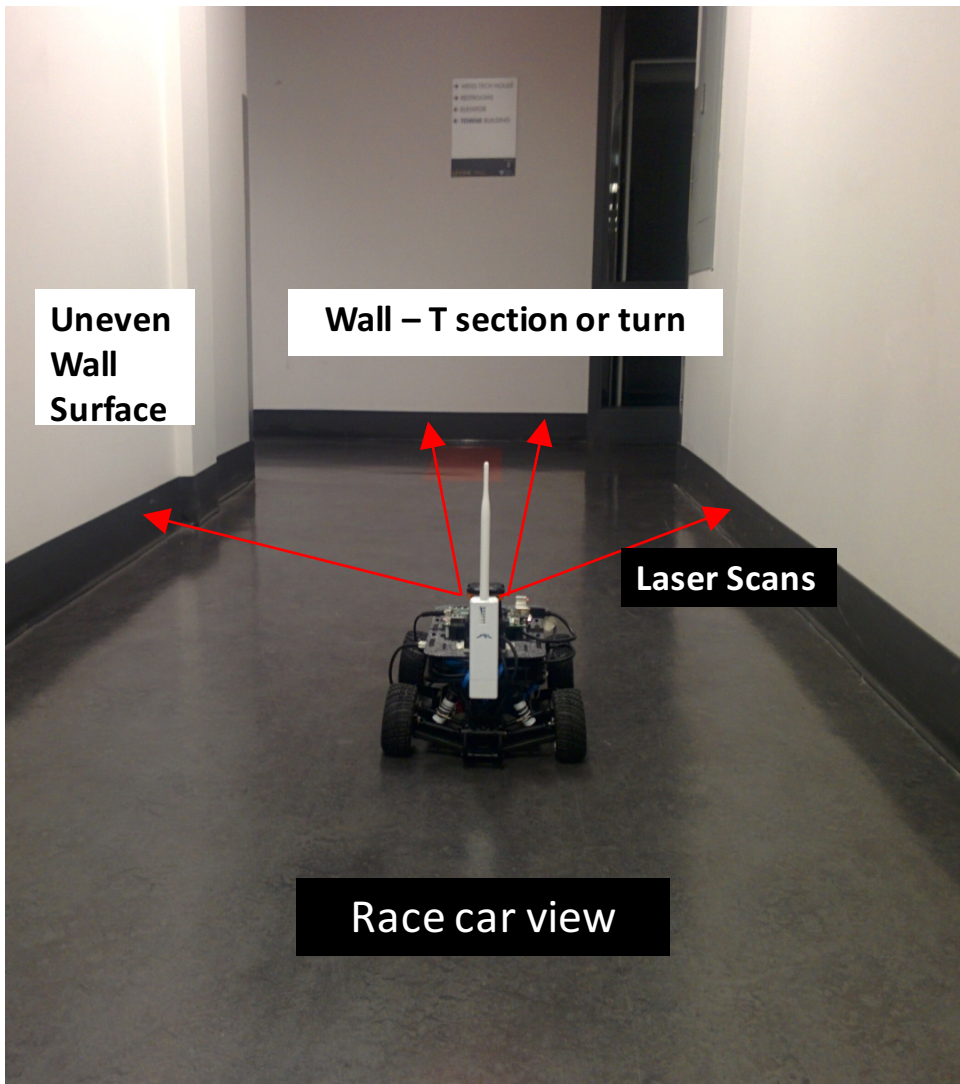
System Architecture



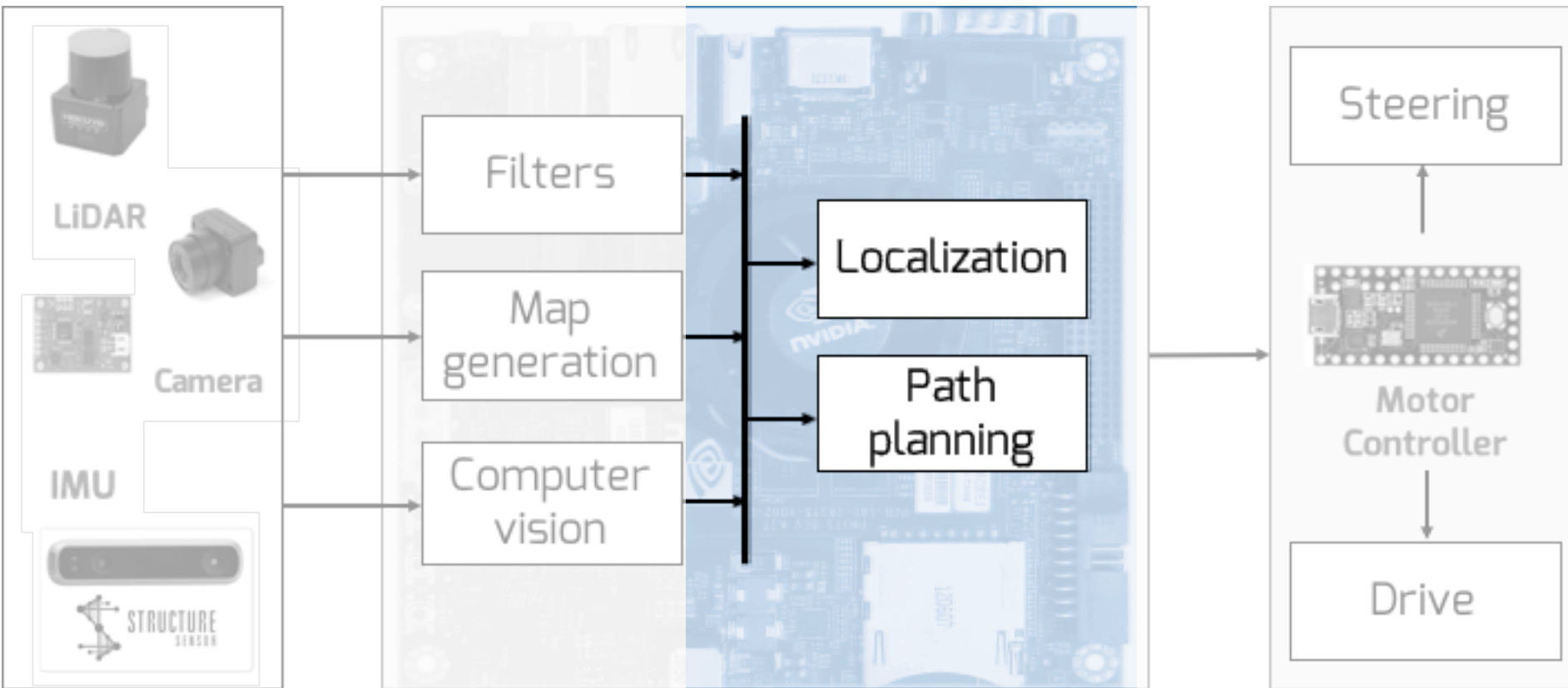
Perception



Perception



Planning

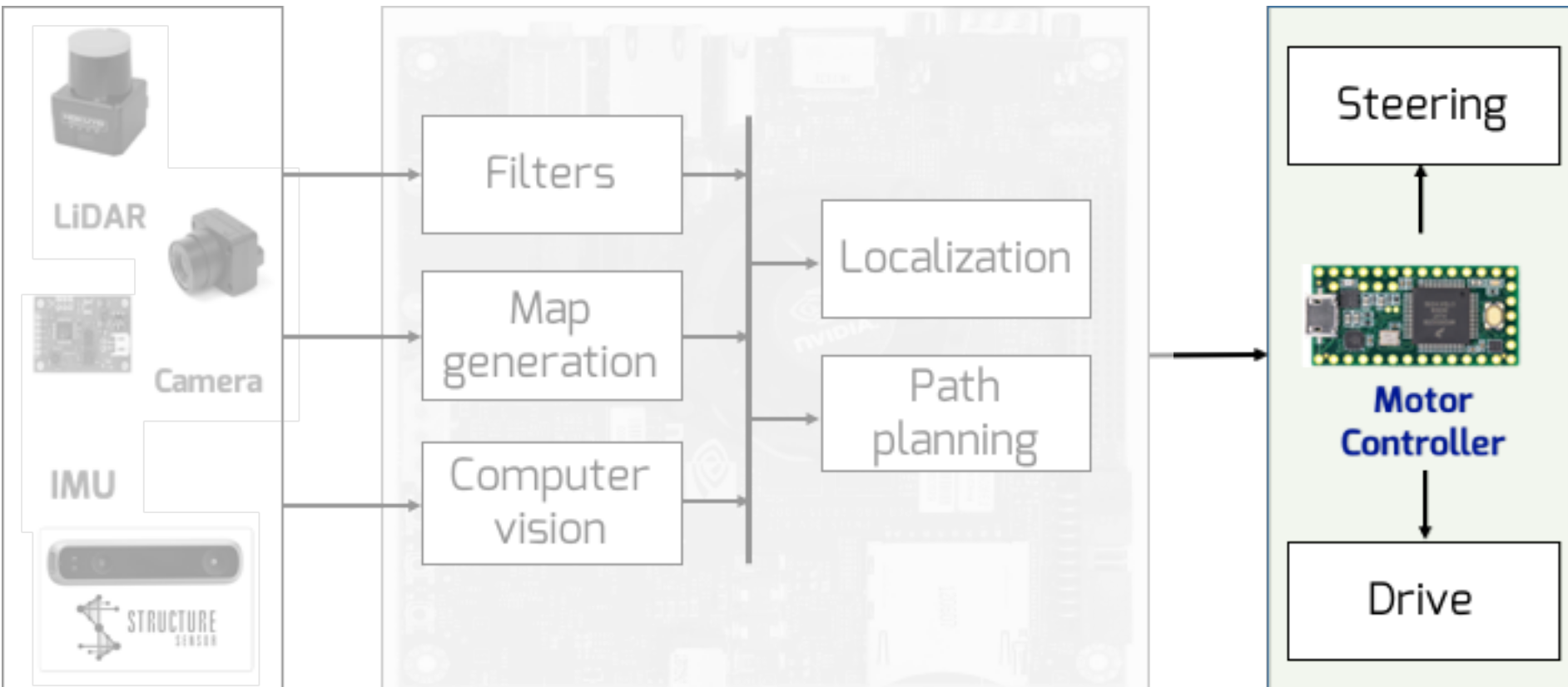


Planning



Cost Maps path planning

Control



System Architecture

