

# ROAR

## Racing

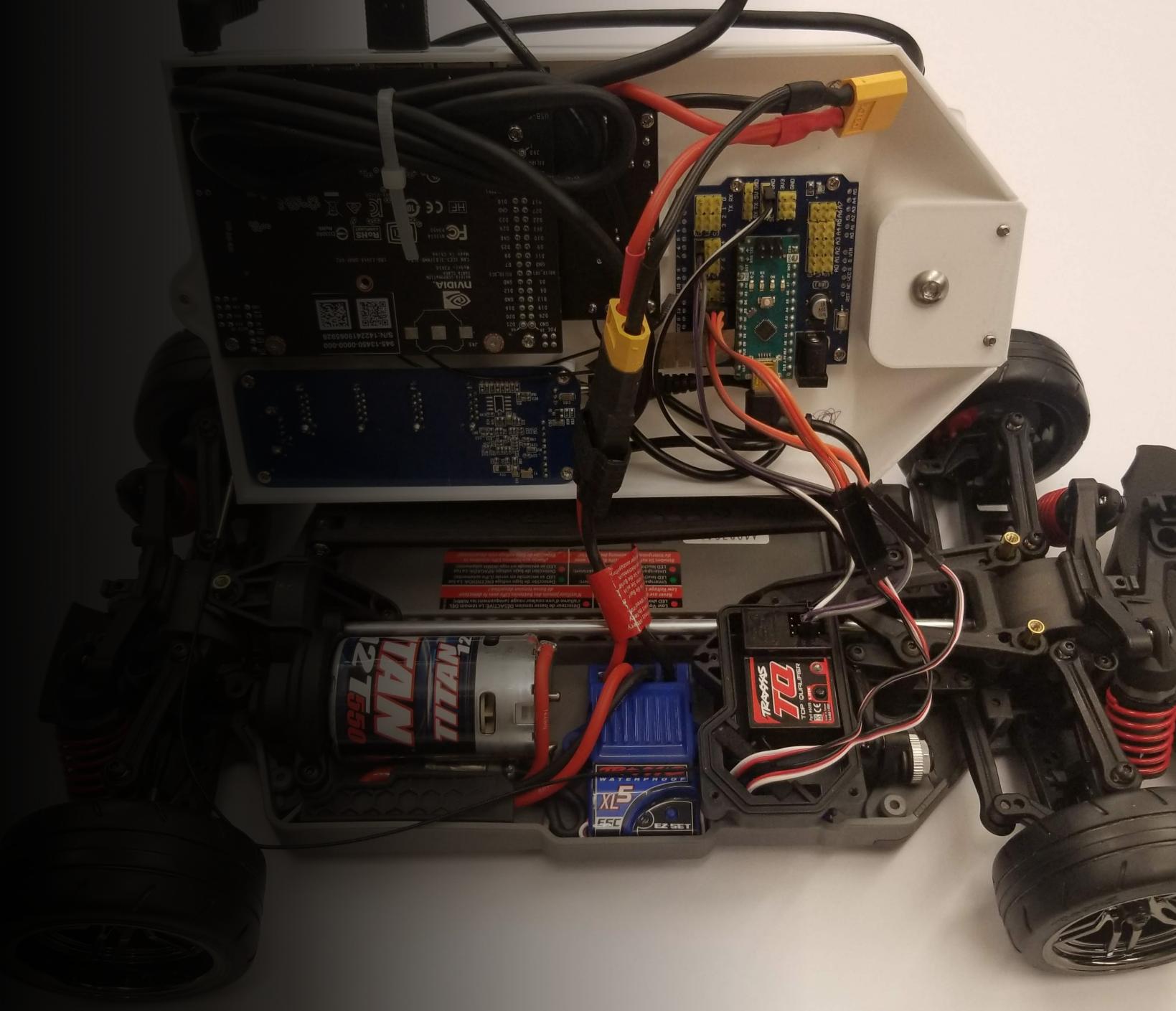
### Competition



# Hardware

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- 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
- SD Card
- USB Splitter Board
- 7.4 Volt Lipo



## Traxxas 4 Tec

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- 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

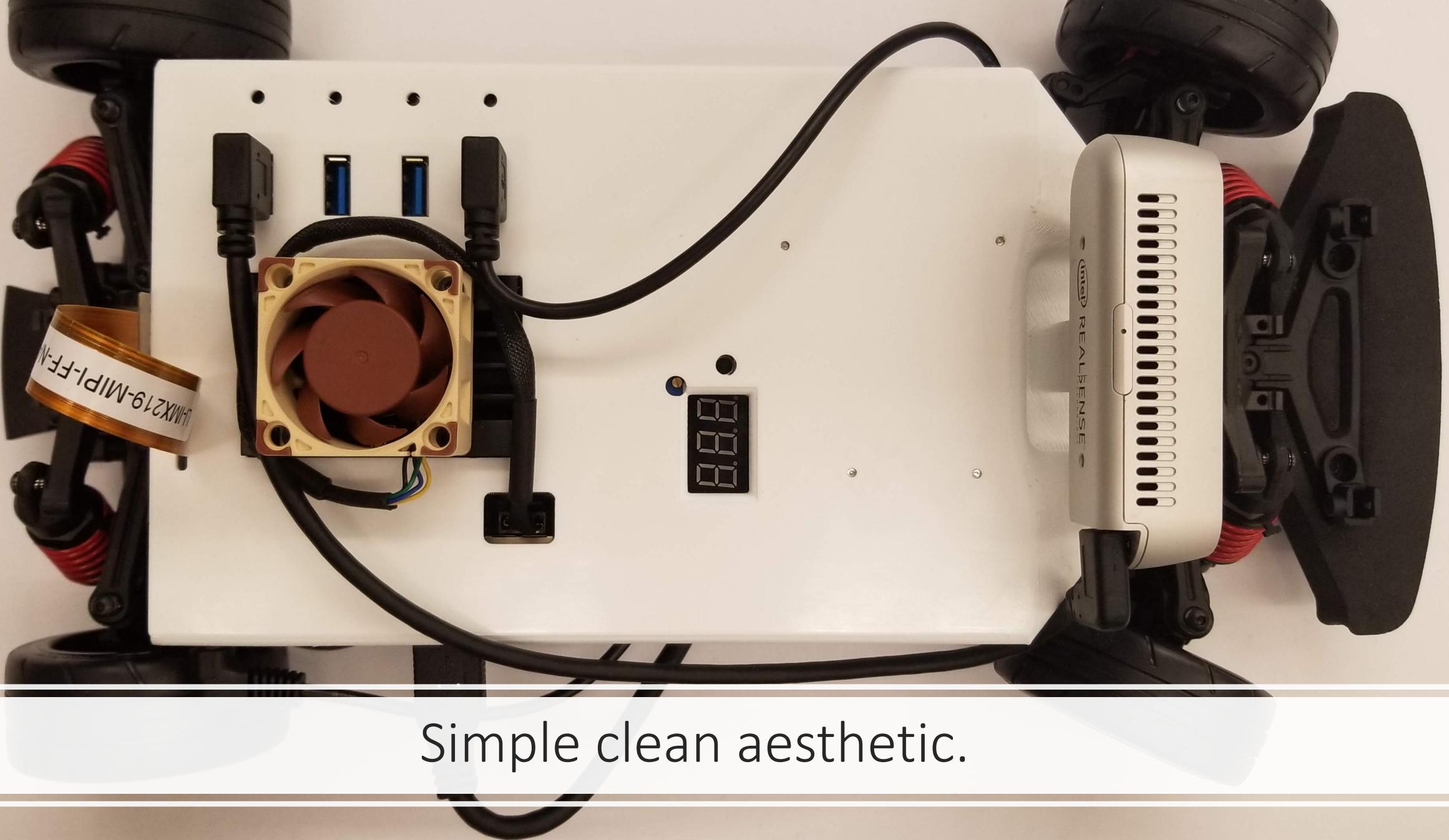


# Optimal Racing Platform

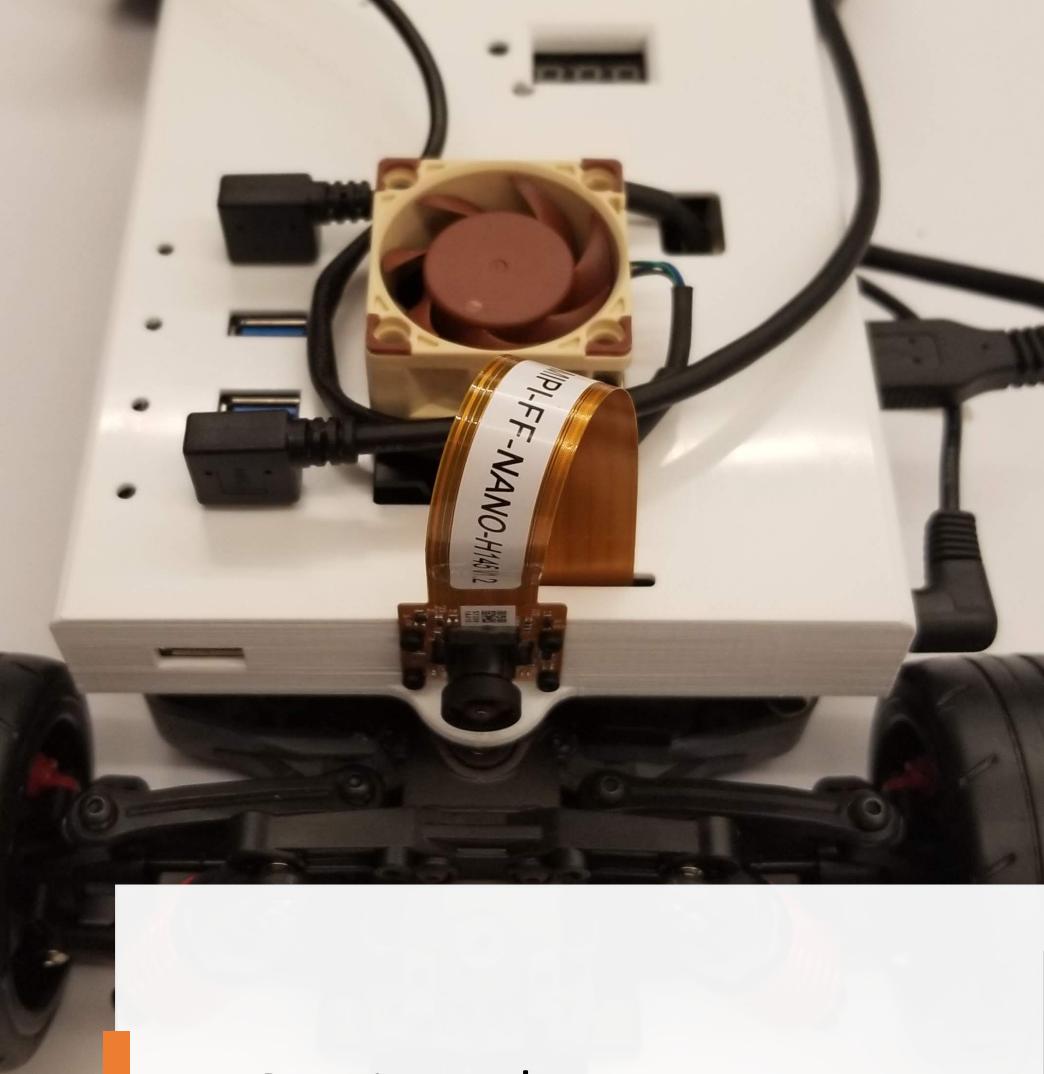
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- Easier to use hardware interface.
- Robust Platform for integrating control law and machine learning algorithms.
- Easy to add hardware modifications.





Simple clean aesthetic.



## Optional Parts



- Rear View Camera
- Heatsink Fan
- Optional Dual RealSense Camera Mount  
(D435i and T265 Mount)

# Main Goal

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Complete a project using the car platform. (hardware or software)

Potentially participate in Autonomous Racing competition in May.