

SoildWorks Design Portfolio

2019 Robomaster Competition

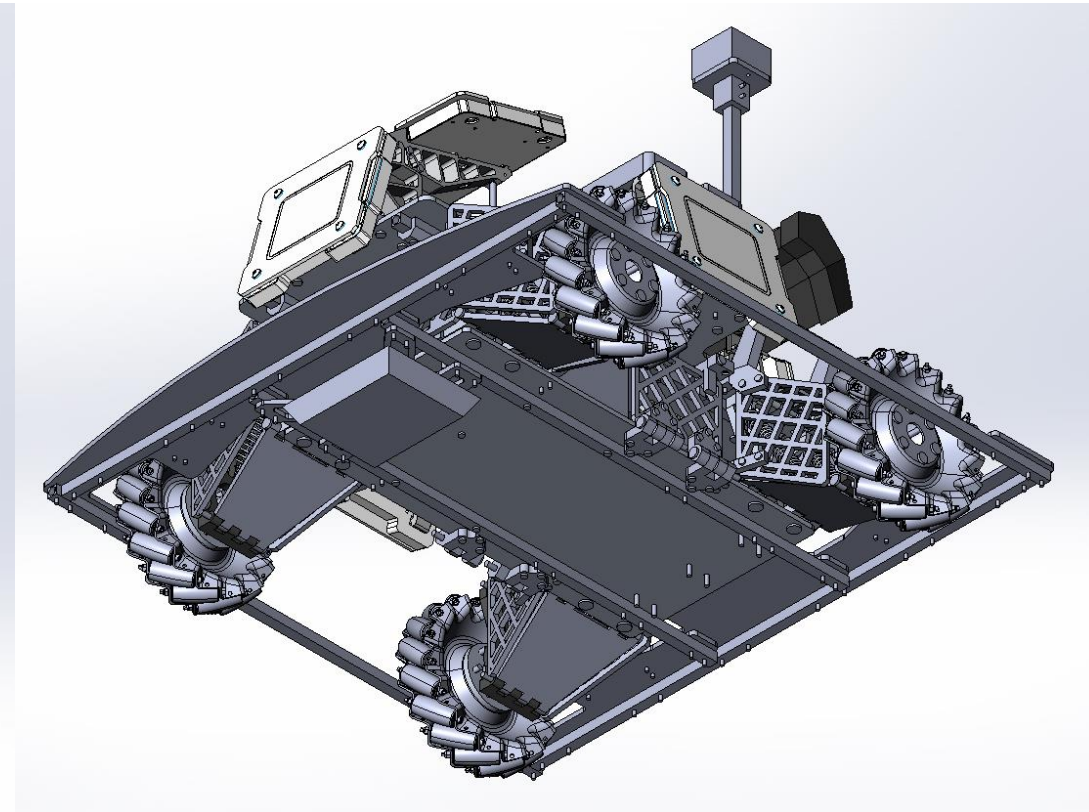
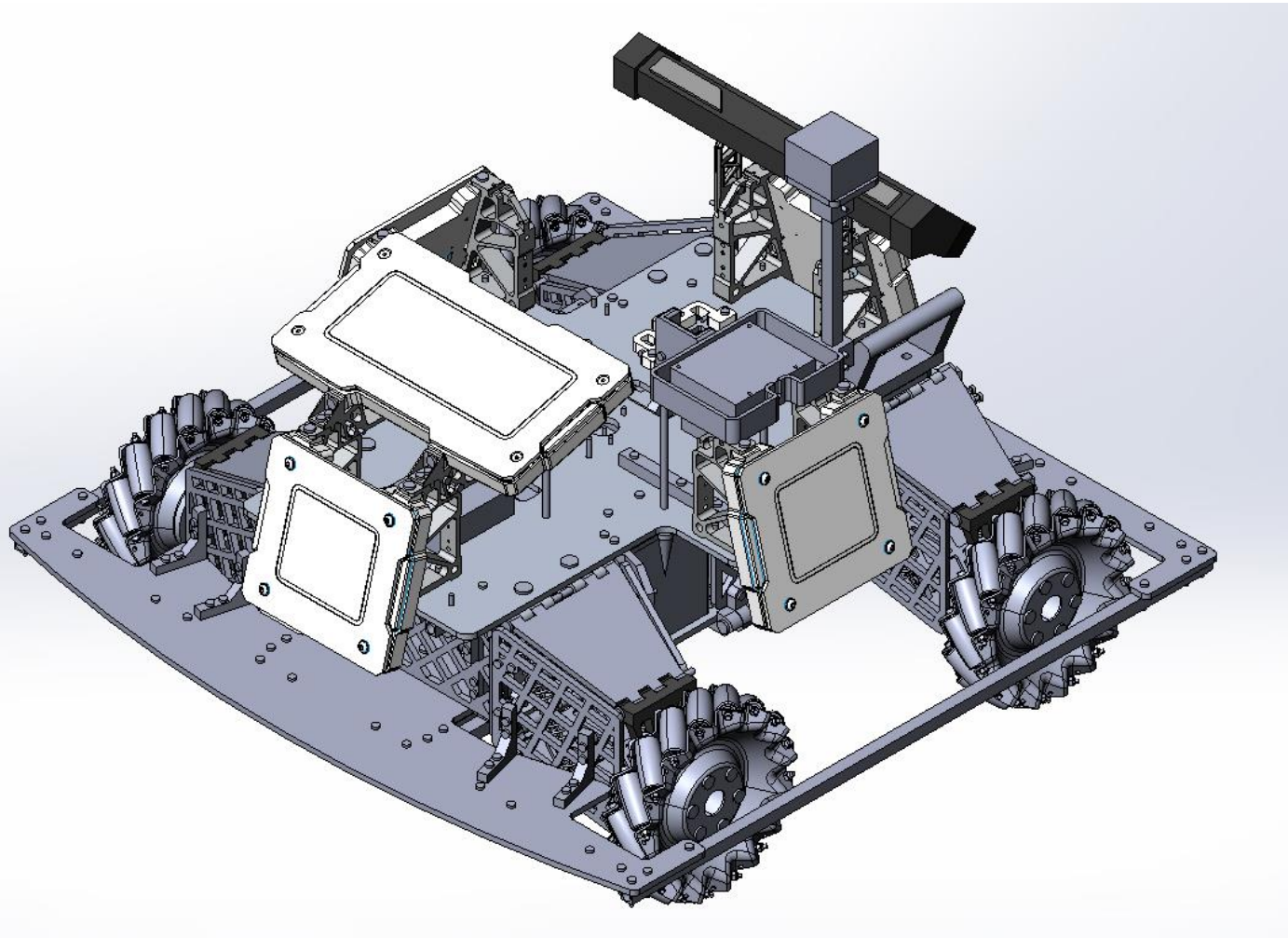
Jun Fan

junfan@umich.edu · (812)243-0401

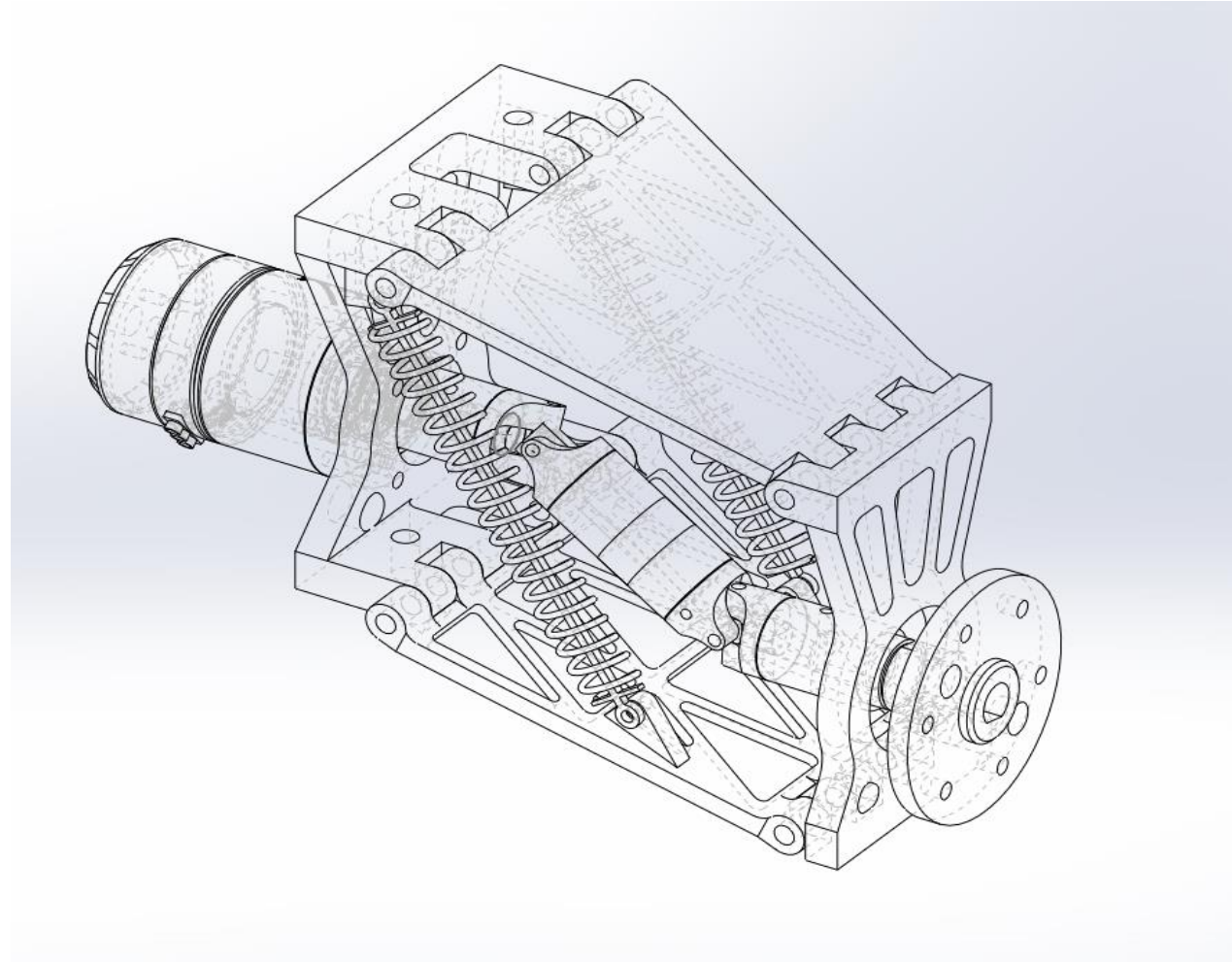
Robomaster 2019

- Mechanical sub-team leader of Rose-Hulman competition team
- Achievements as an individual
 - Ground robot general chassis design
 - Sentry Robot design
- Achievement as a team leader
 - General gimble design
 - Design combination
 - Fabrication, testing, and improvement of robots

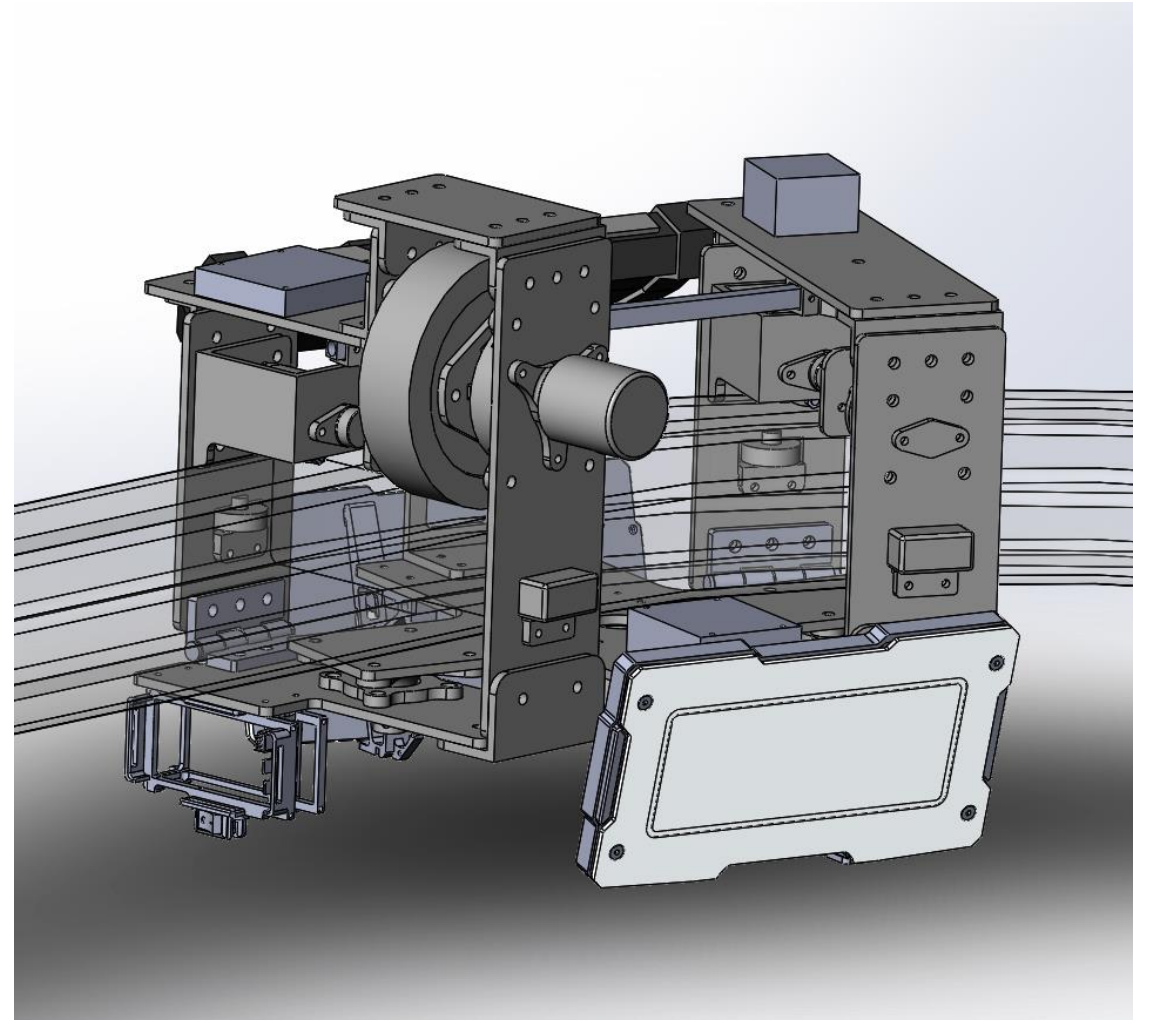
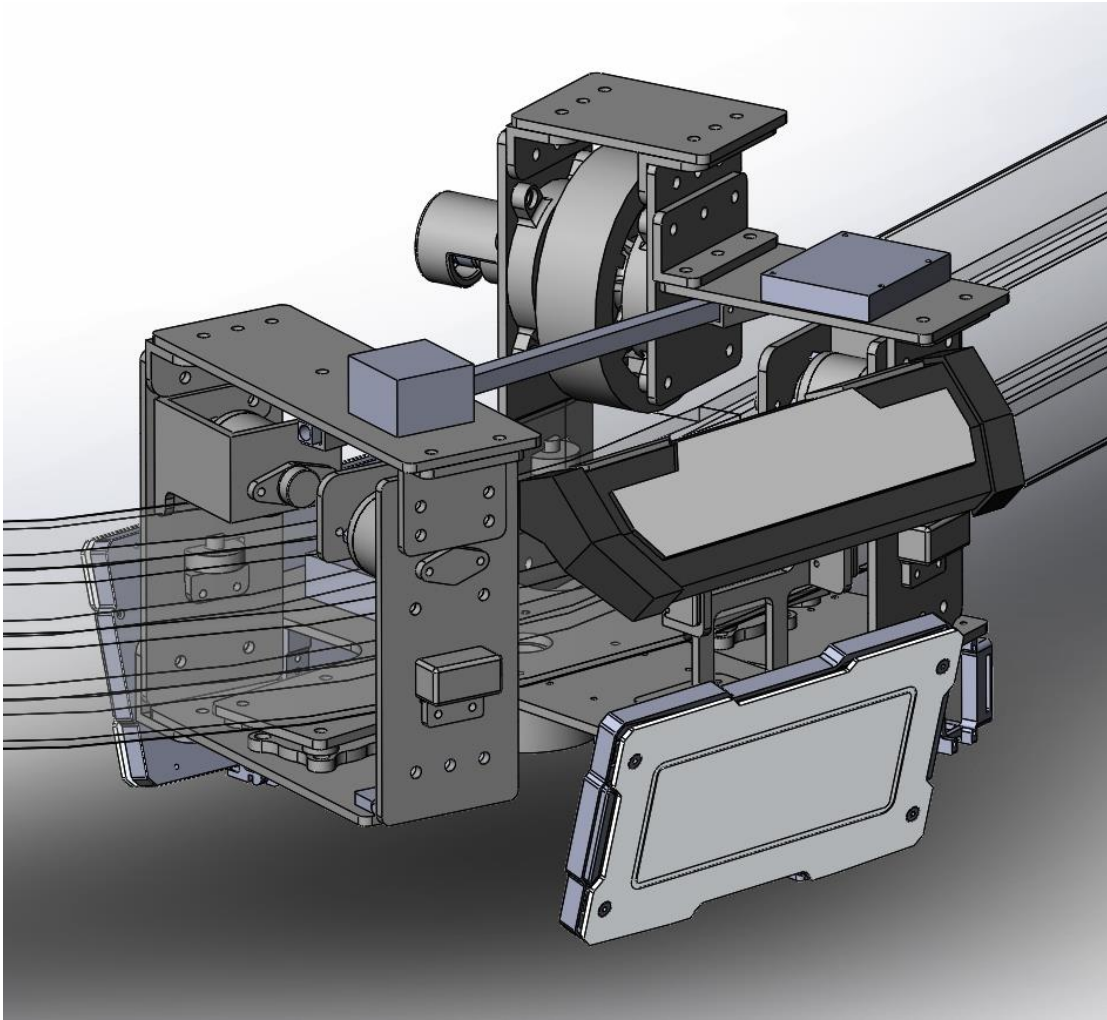
Individual Design - General chassis for ground robots



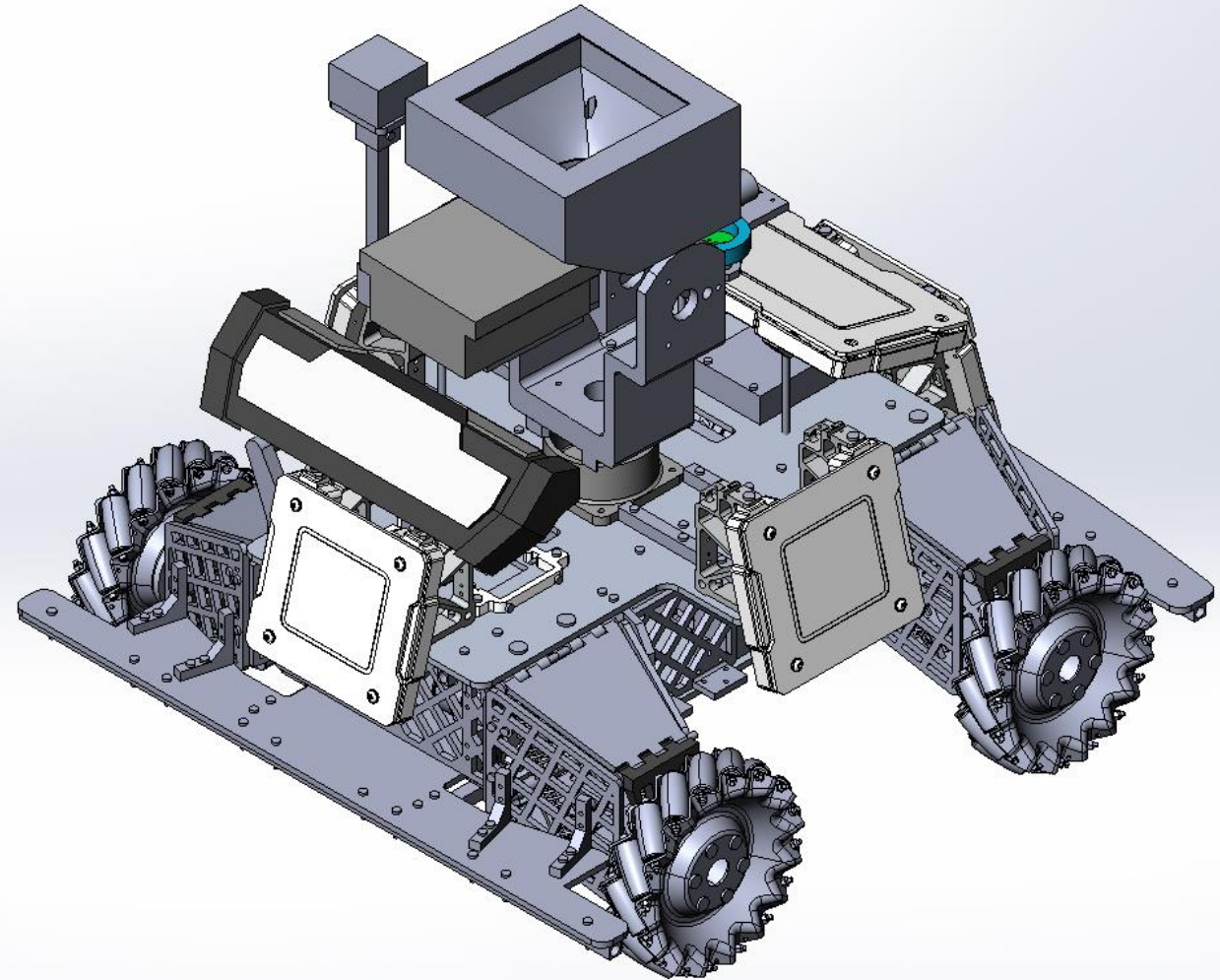
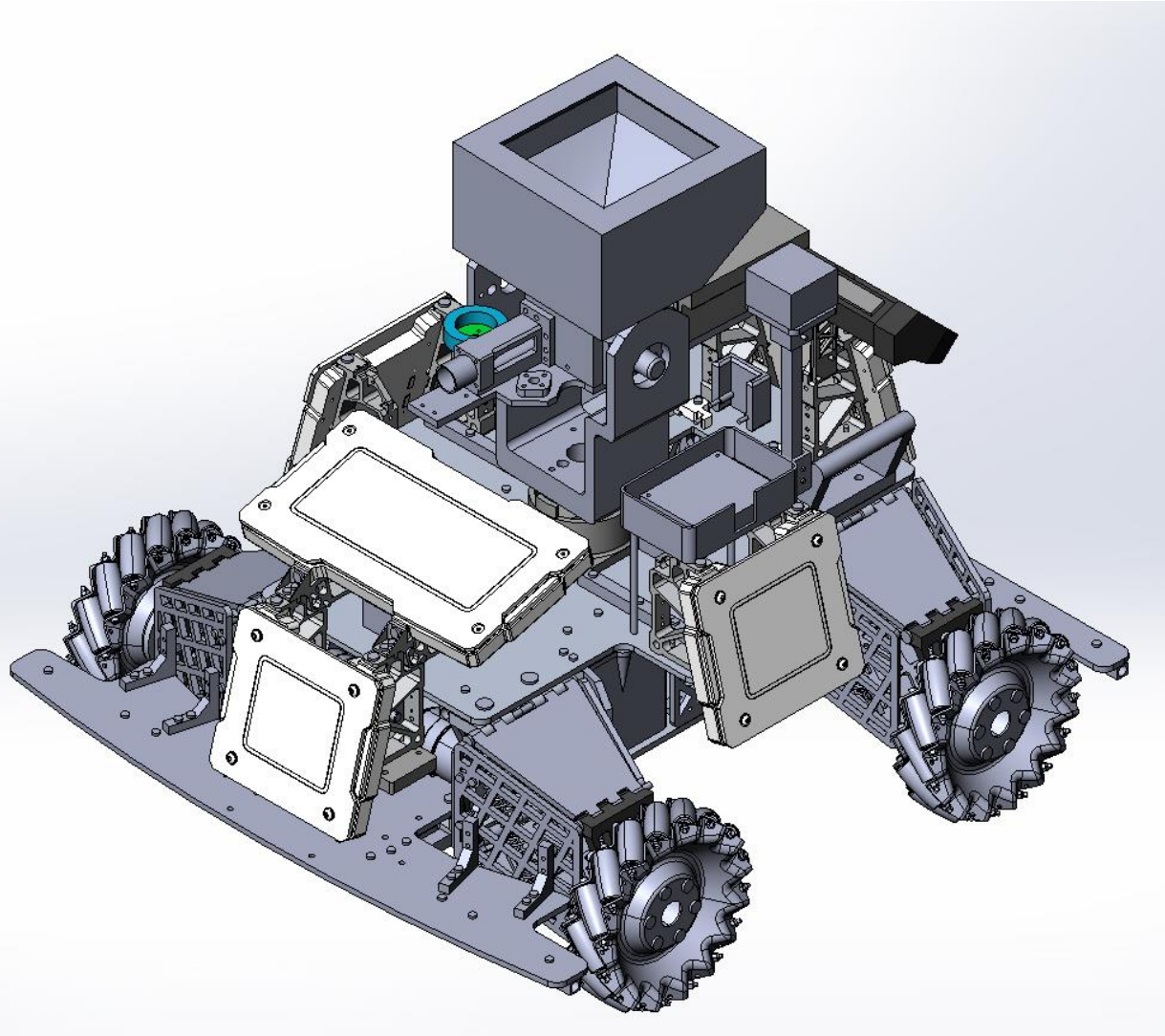
Design Detail - Integrated Transmission-Suspension System



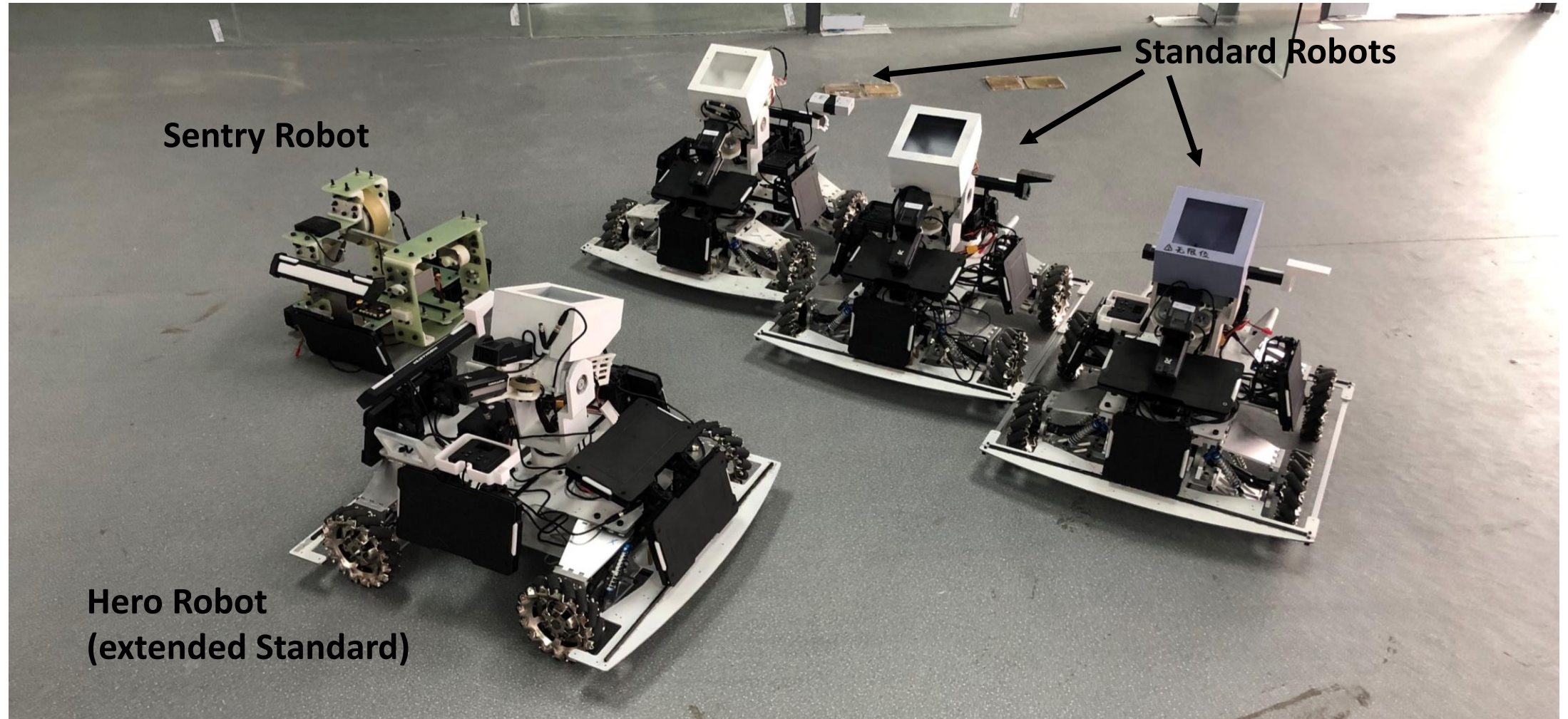
Individual Design - Sentry Robot



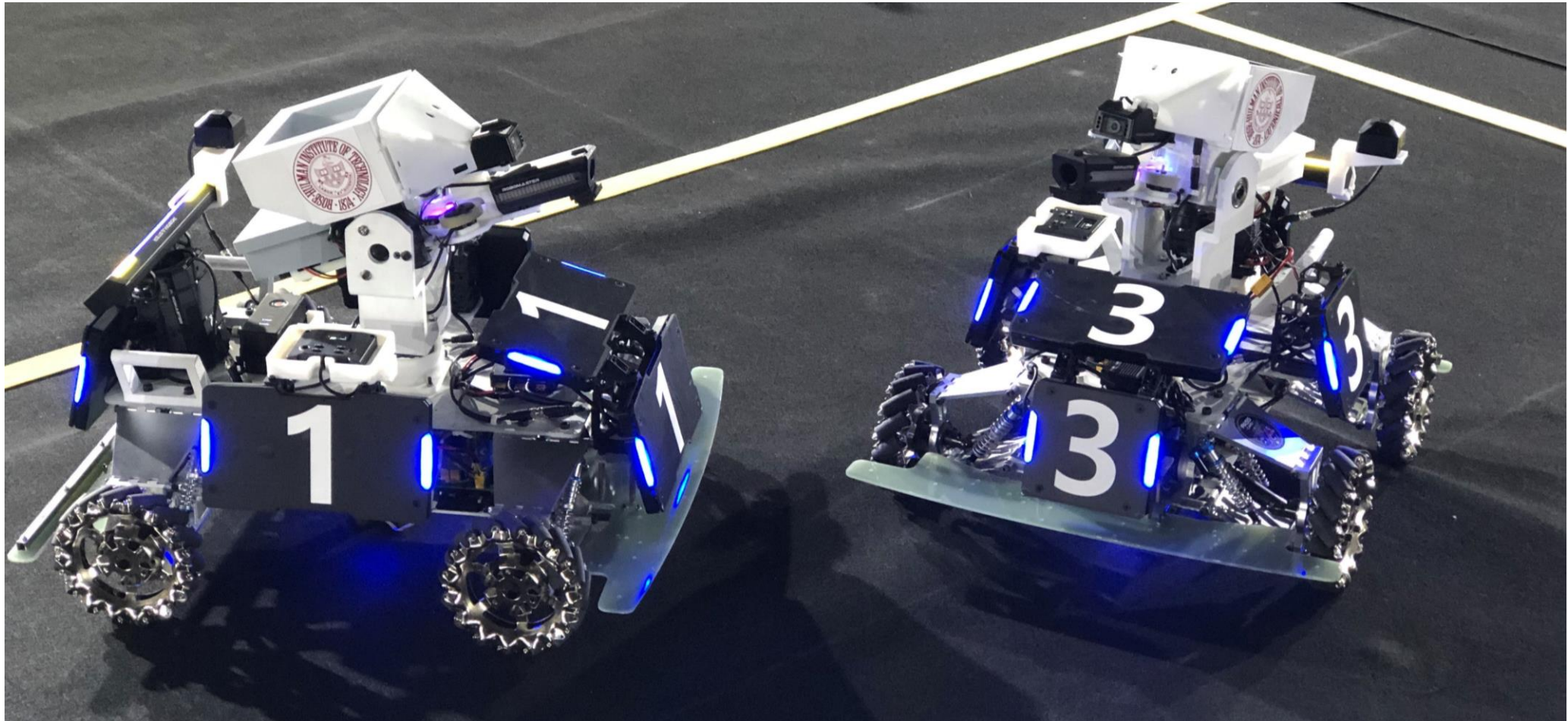
Design Integration – Standard and Hero Robot



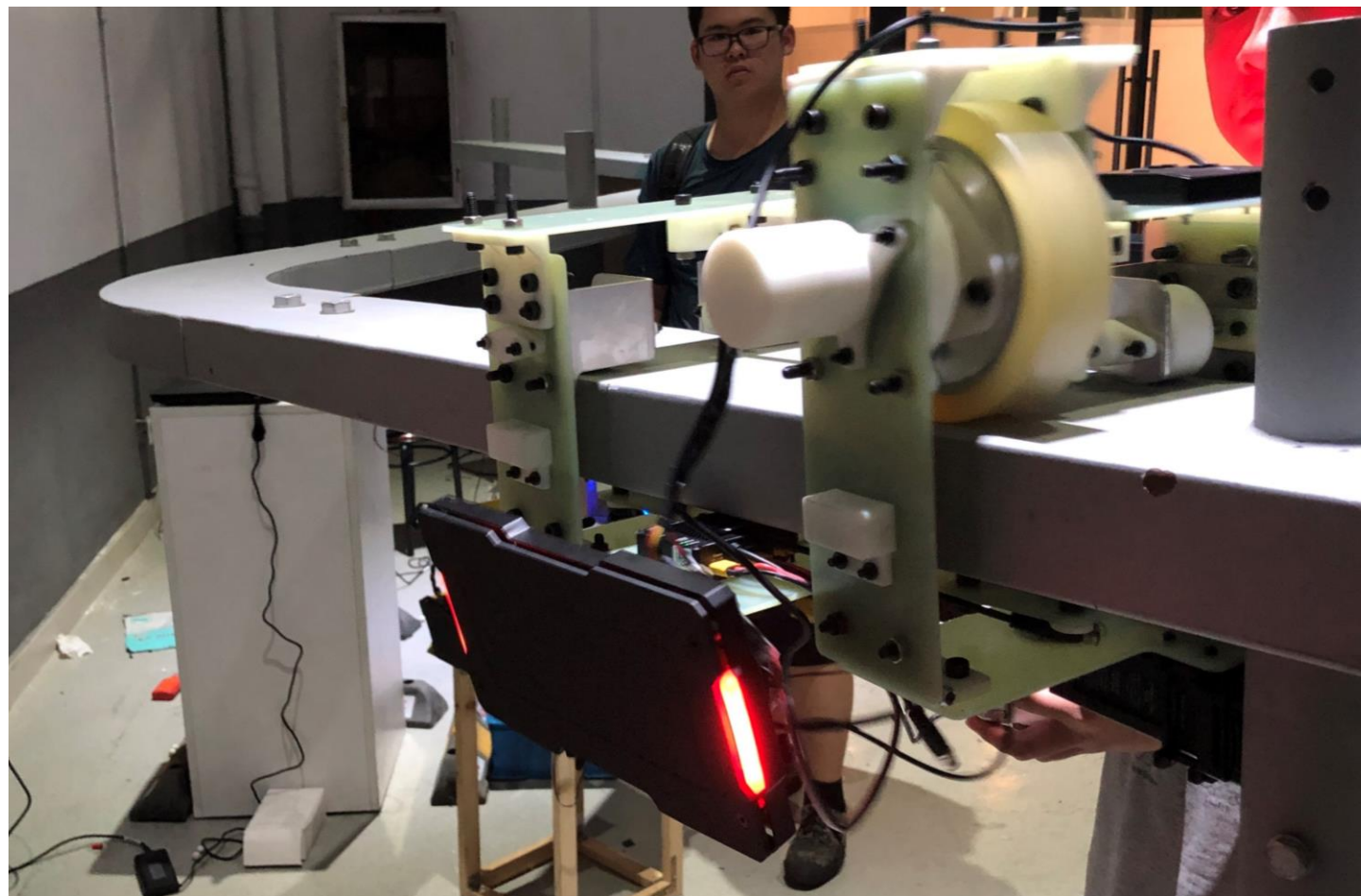
Robot Fleet Overview



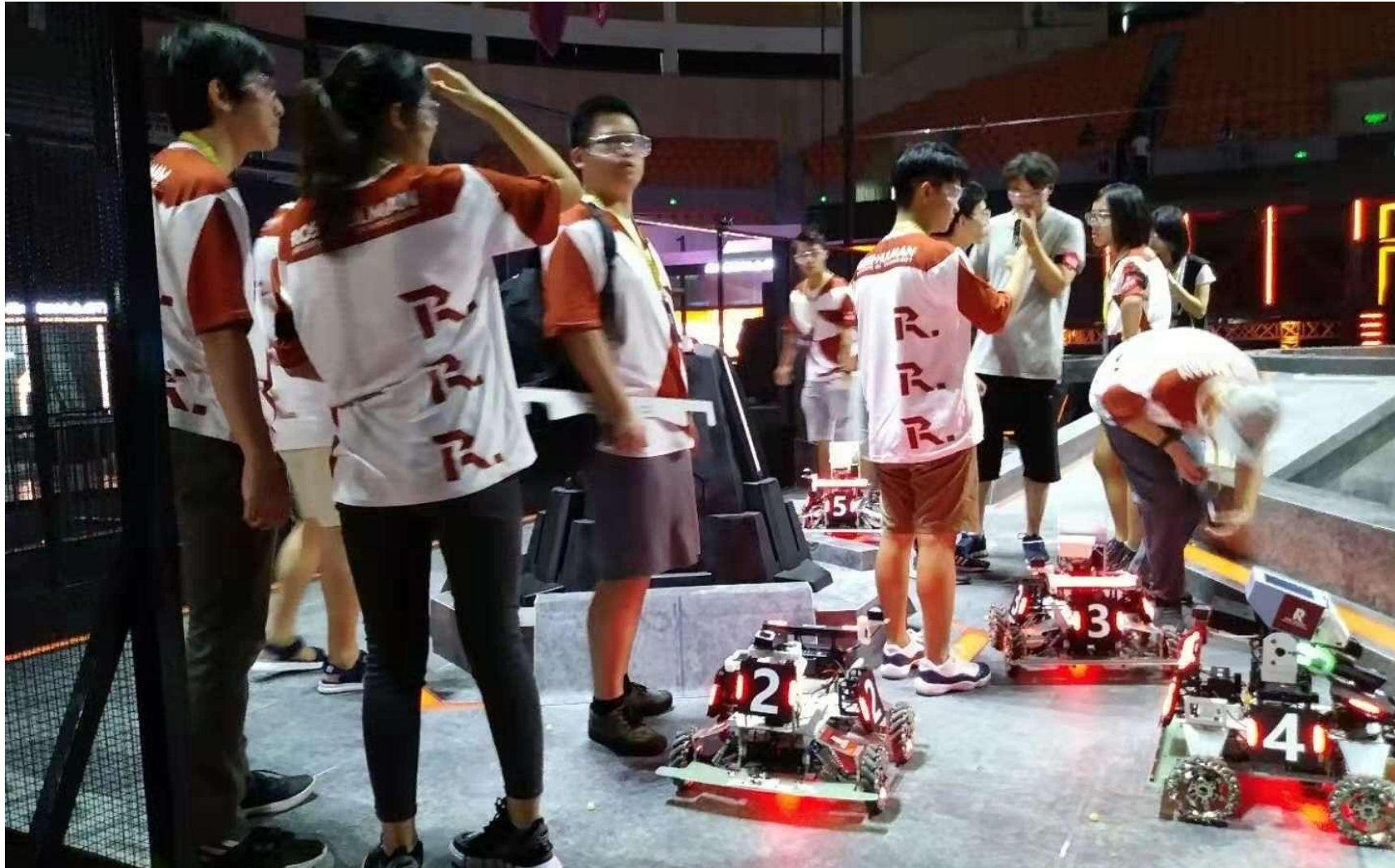
Hero Robot (left) and Standard Robot (right)



Sentry Robot in Operation



Team in Competition



- Competition organizer
 - <https://www.robomaster.com/en-US>
- Competition replay (in Chinese)
 - <https://www.bilibili.com/video/BV1Et411K7kW>
- Preparation highlights
 - <https://www.bilibili.com/video/BV1JJ411n7z4/>