

# Design Portfolio

## 2019 Robomaster Competition

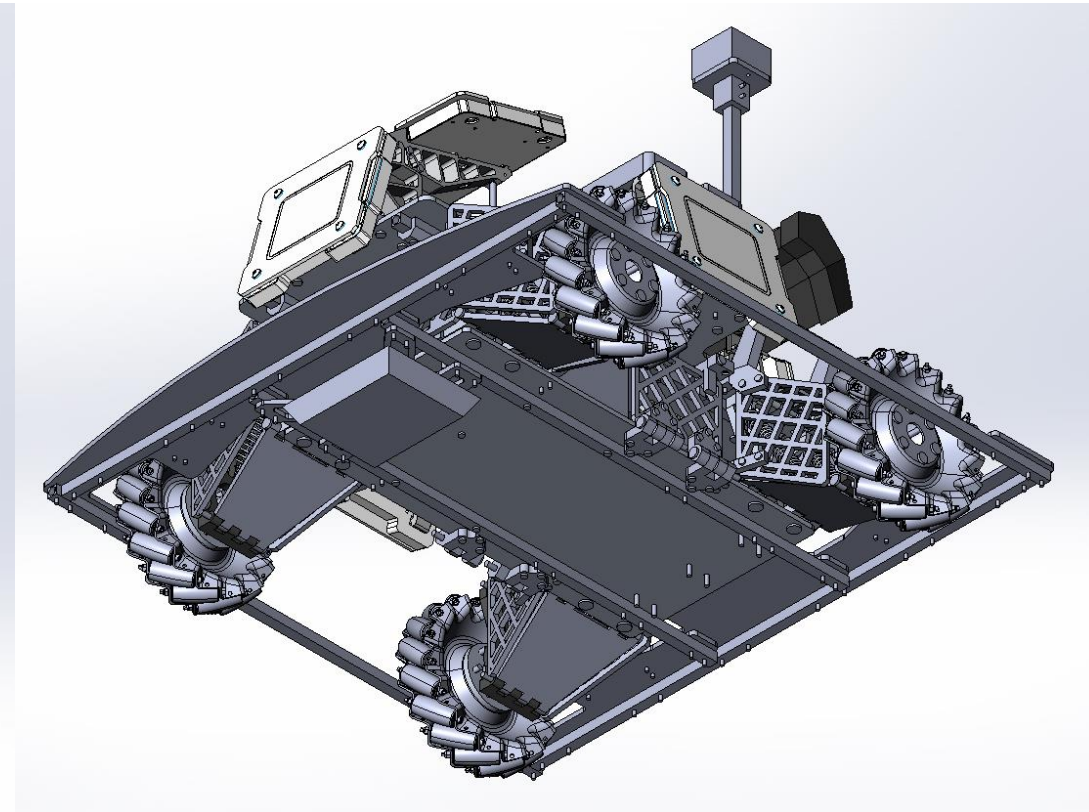
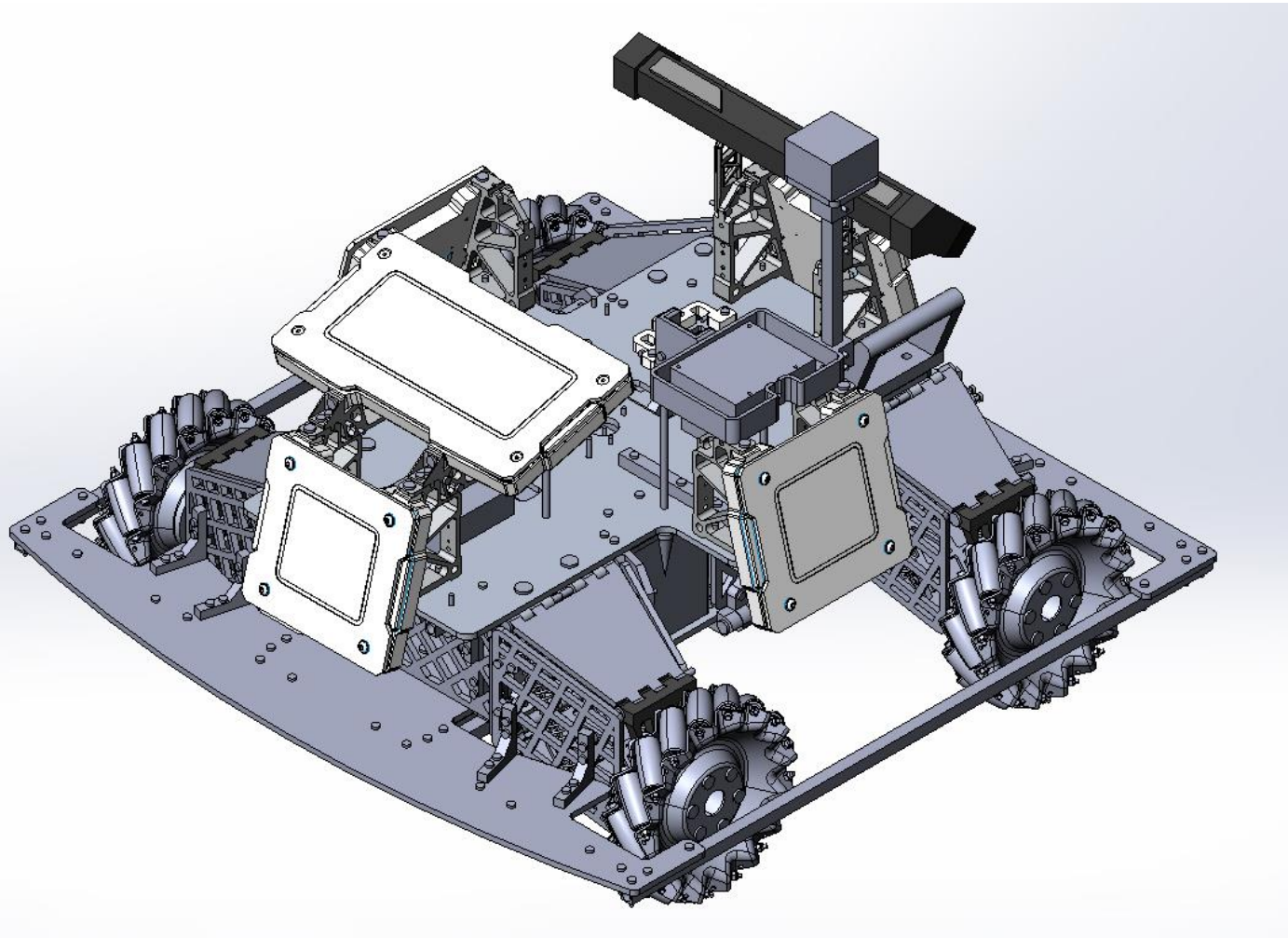
Jun Fan

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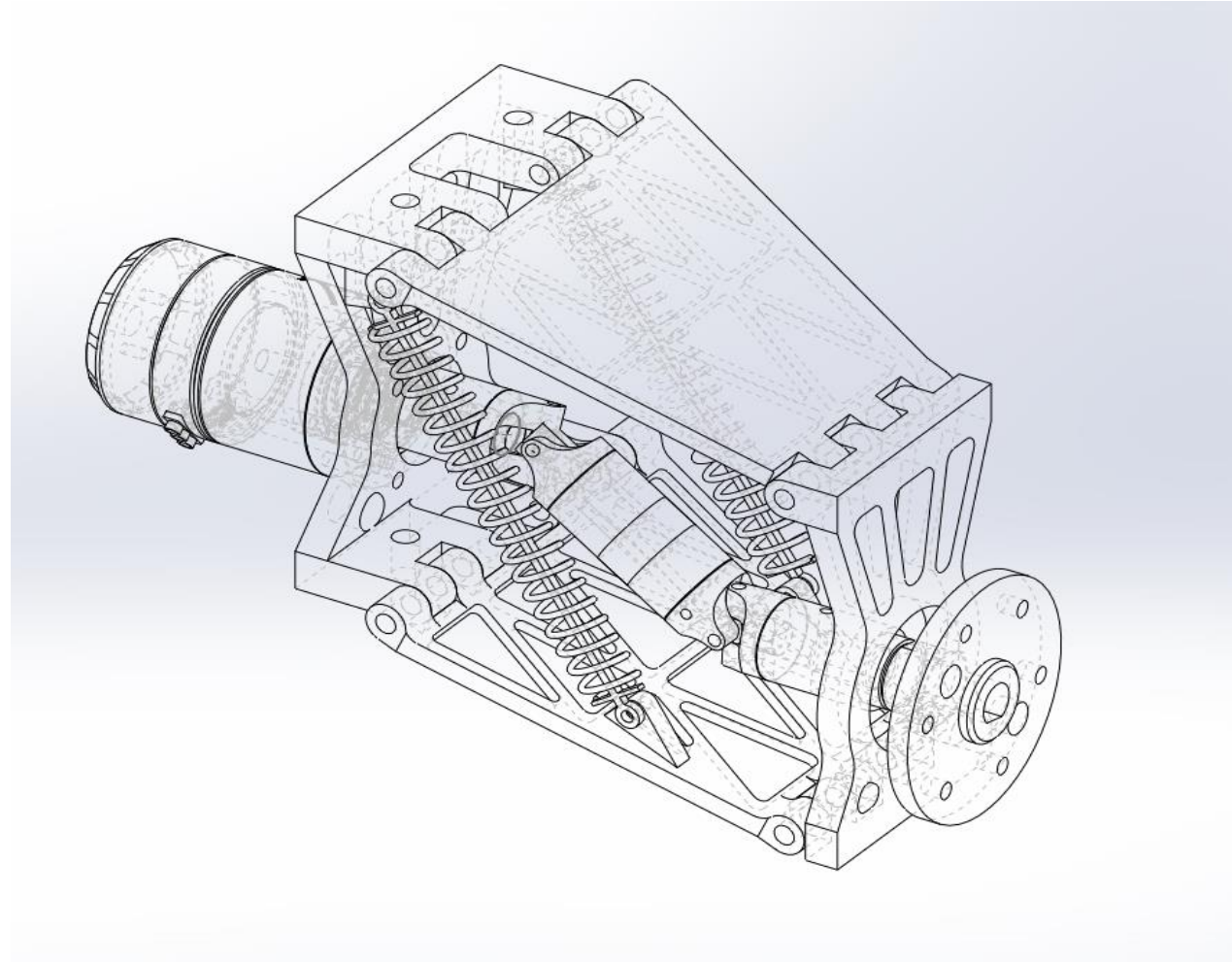
# 2019 Robomaster Robotics Competition

- 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

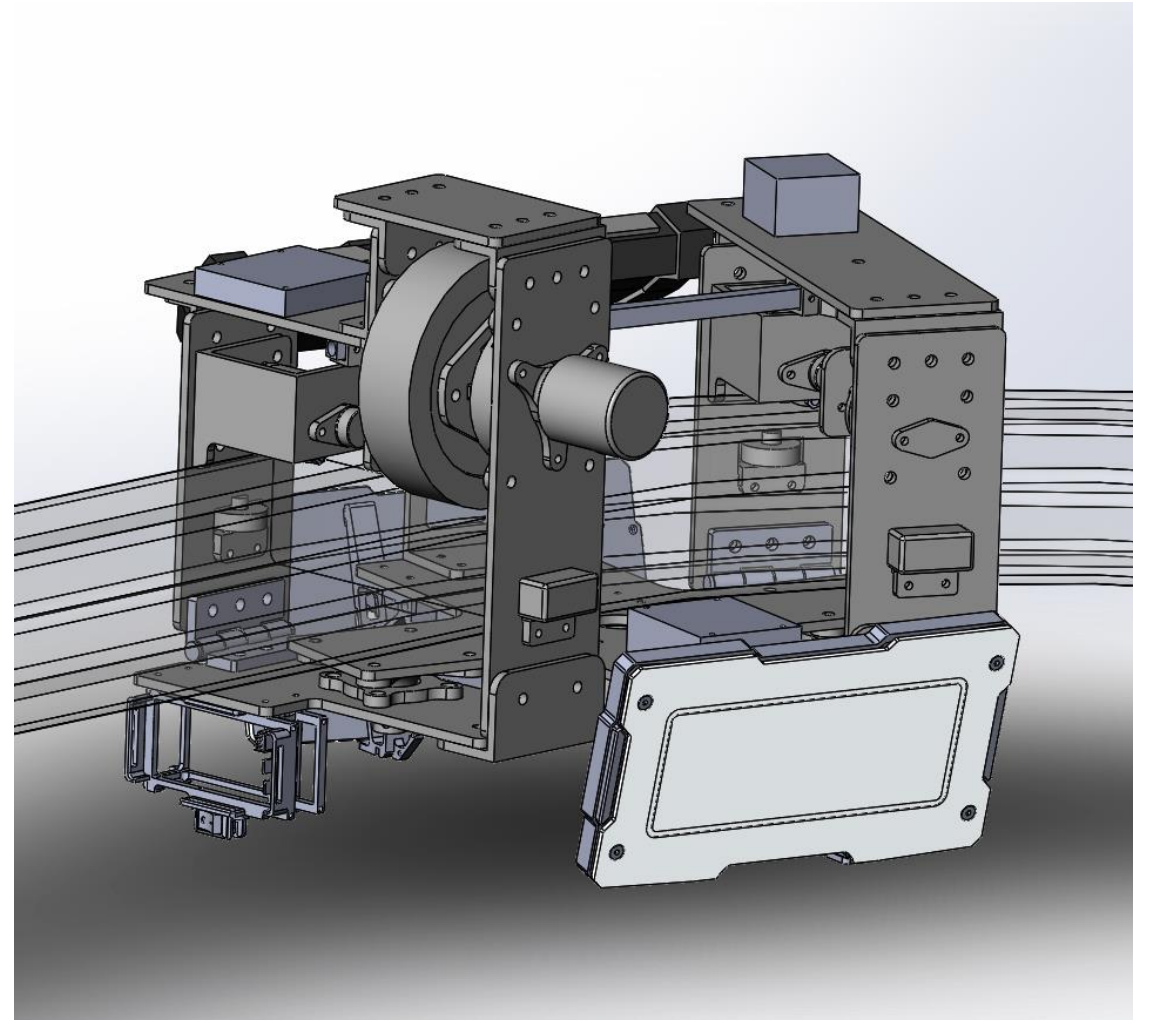
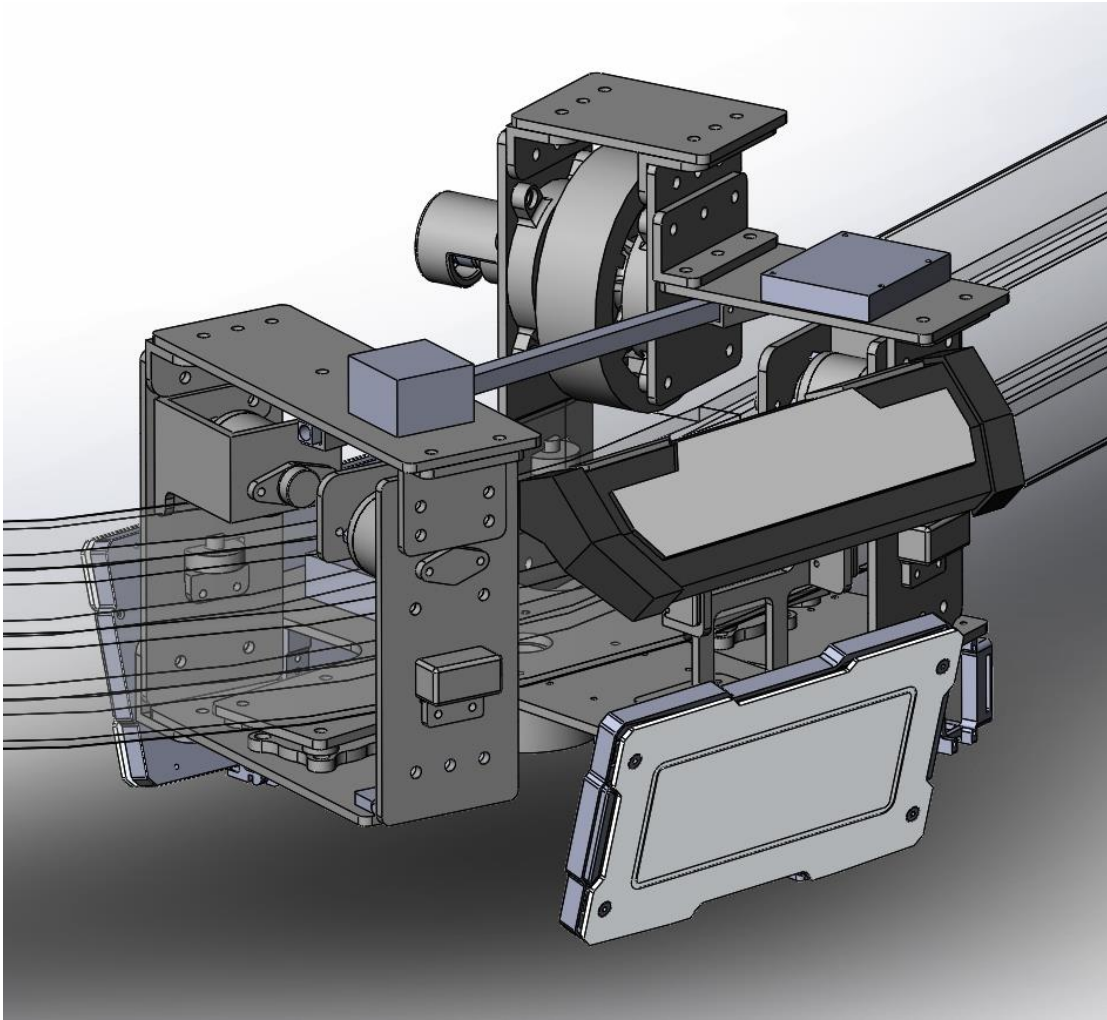


# Design Detail - Integrated Transmission-Suspension System

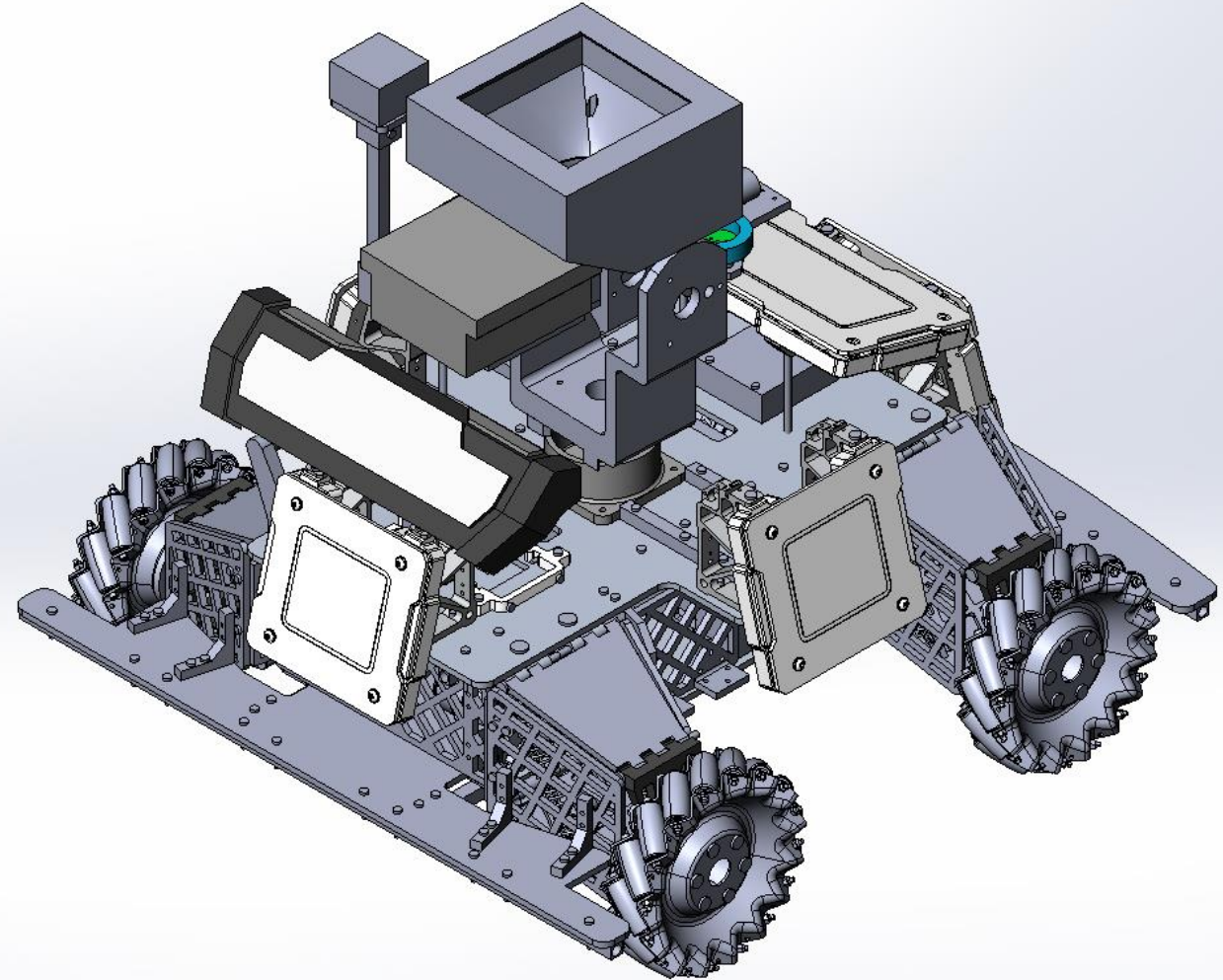
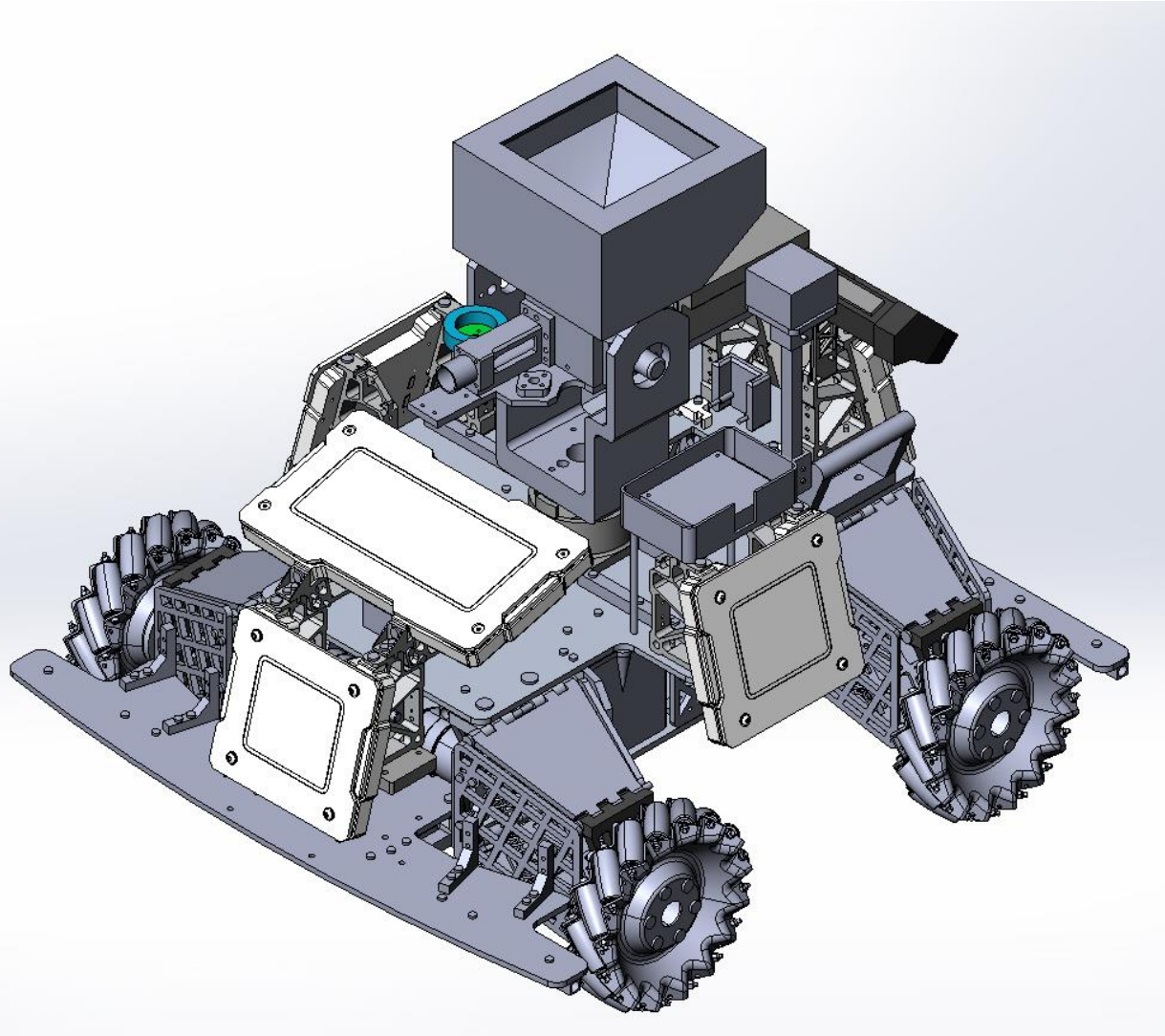




# Individual Design - Sentry Robot

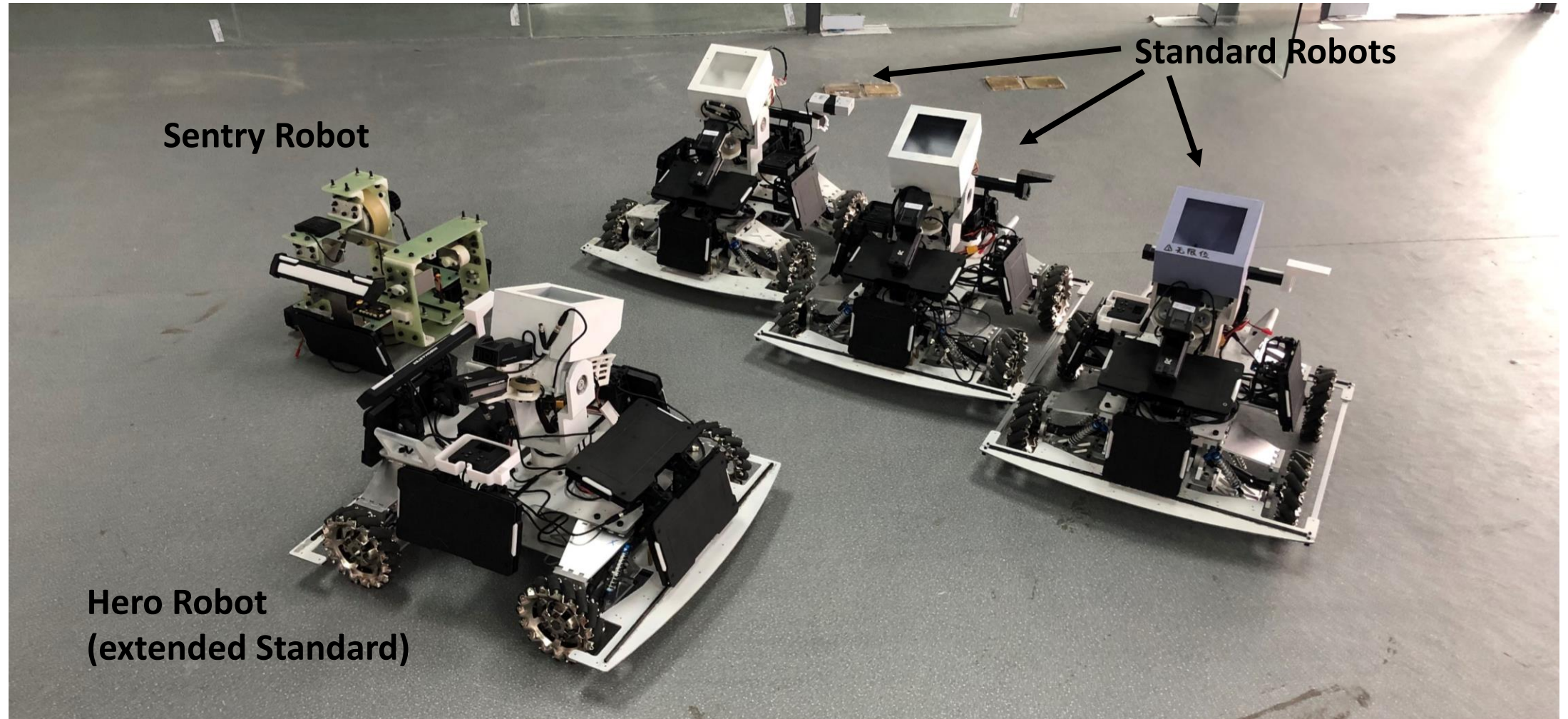


# Design Integration – Standard and Hero Robot



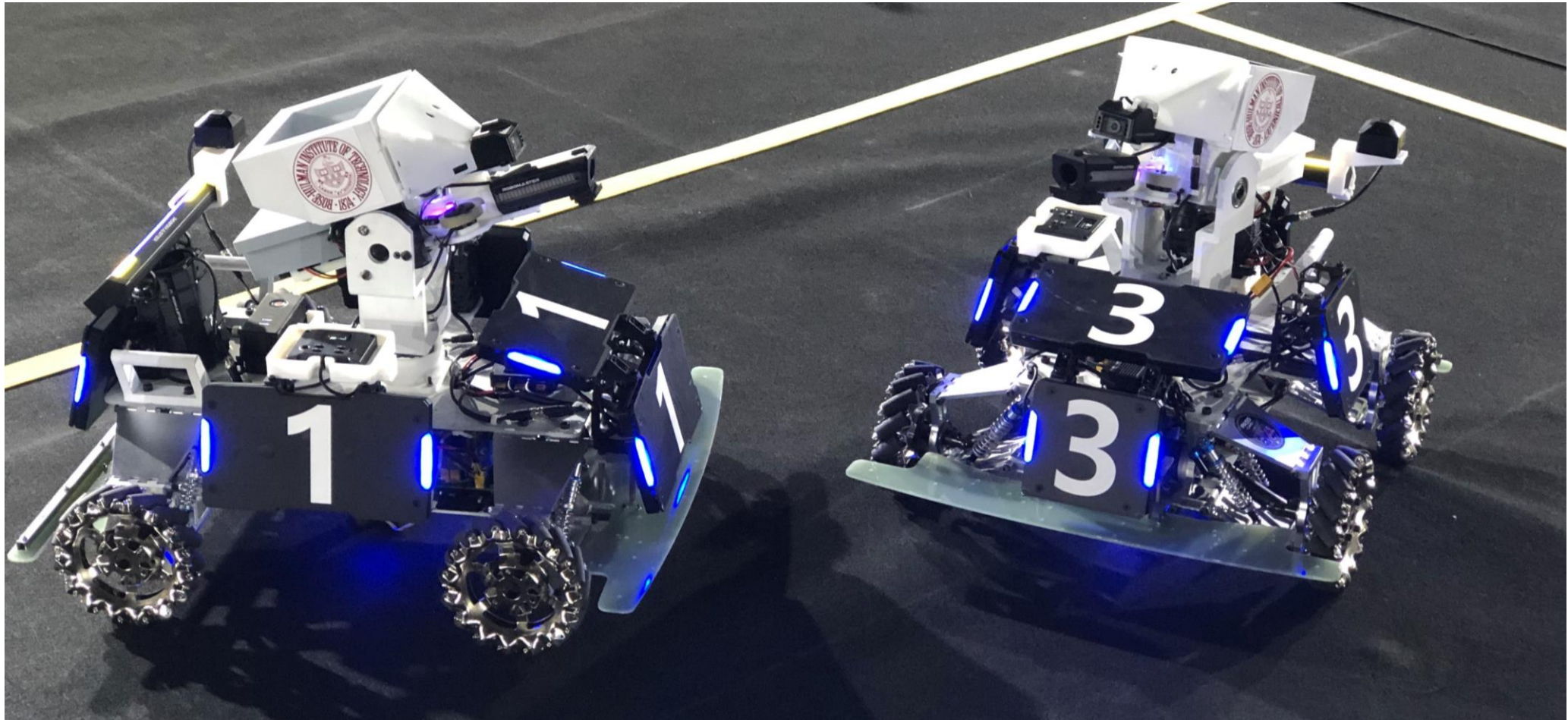


# Robot Fleet Overview



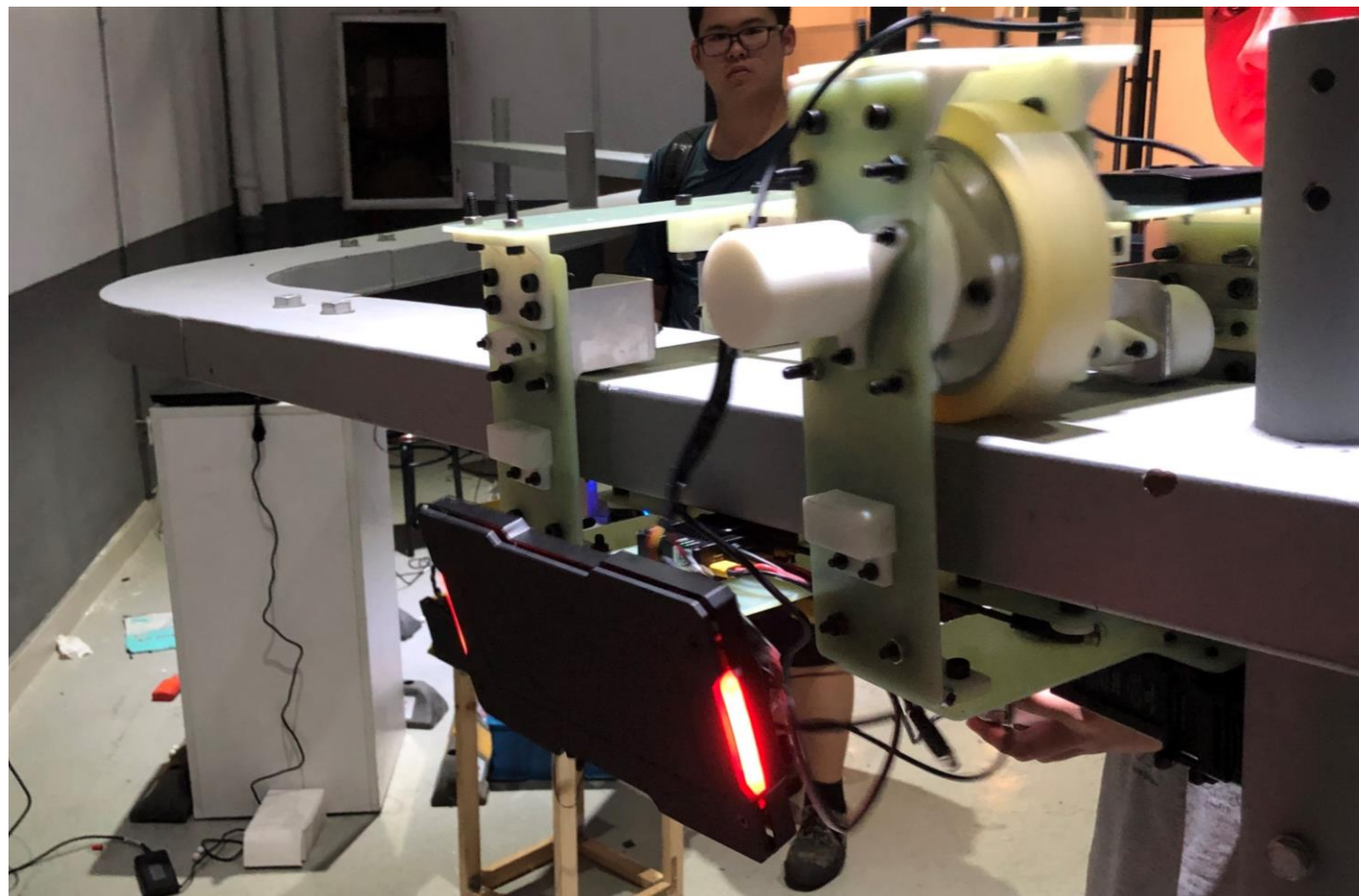


# Hero Robot (left) and Standard Robot (right)

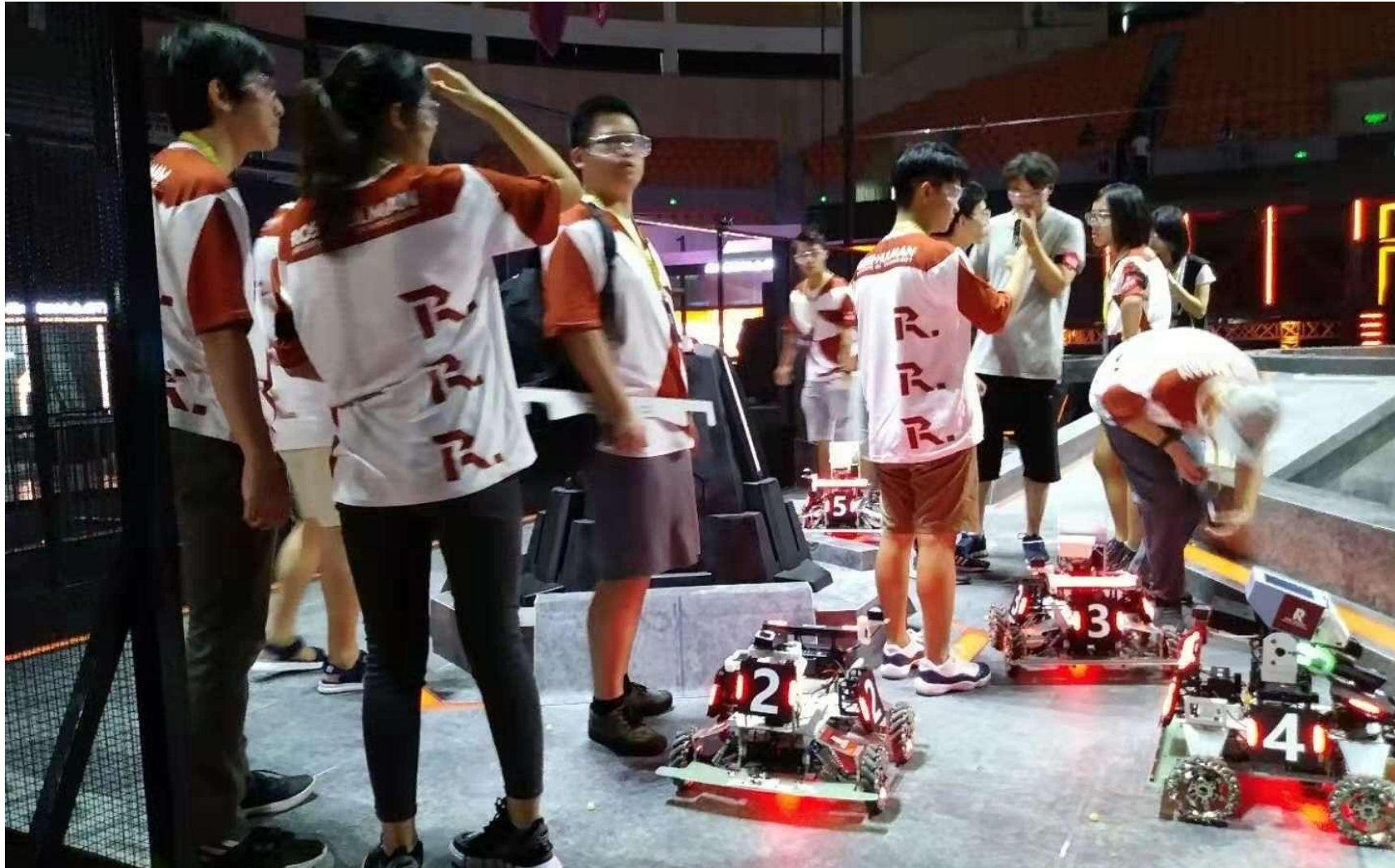




# Sentry Robot in Operation



# 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/>