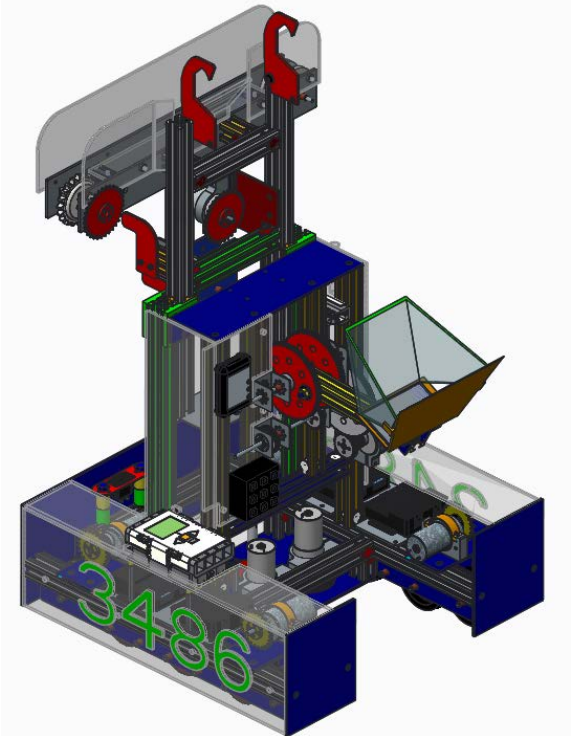
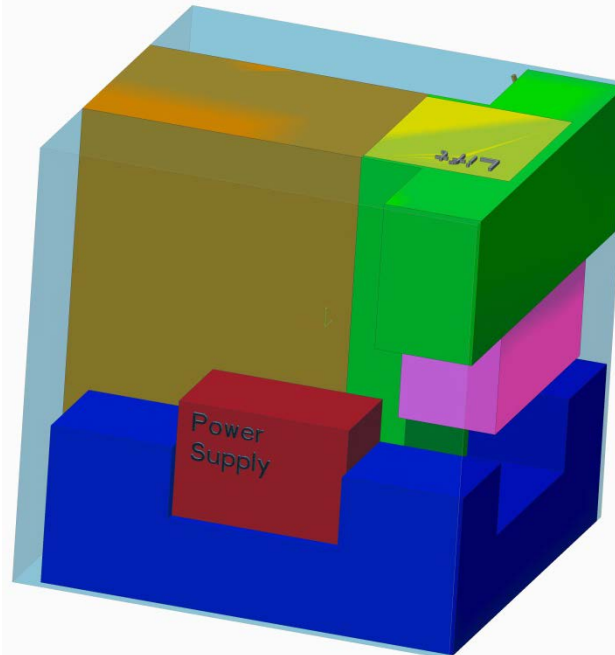


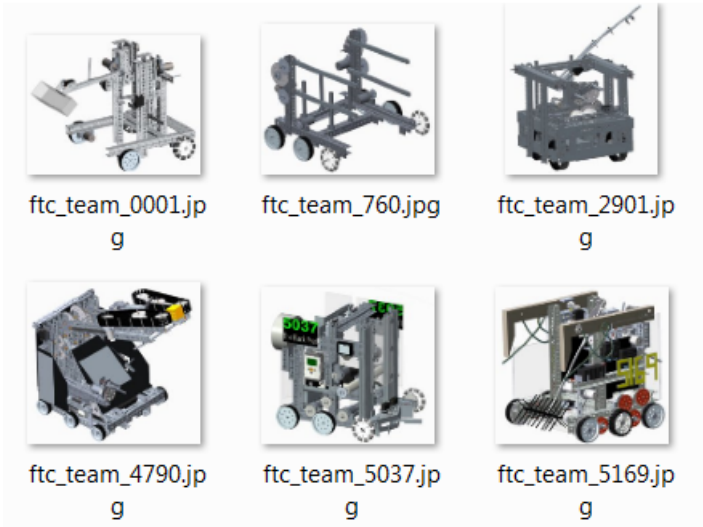
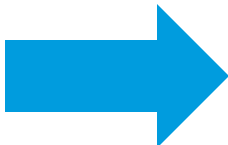
Welcome
FTC Teams to PTC Headquarters

Engineering Best Practices

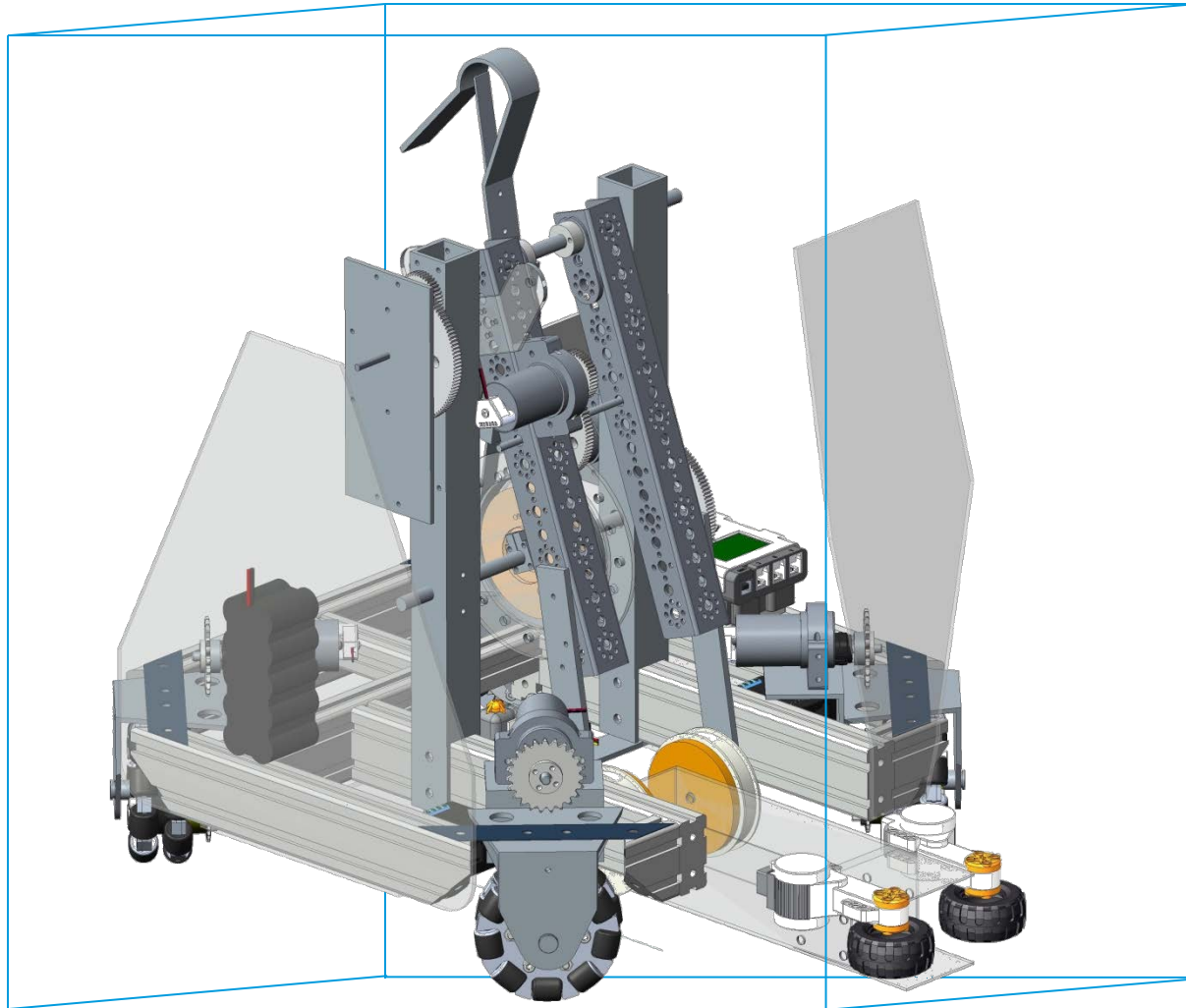
- 4:00 Pizza and Welcome
 - 4:30 Systems engineering
 - 5:30 Subsystem detailed design
 - 7:00 System integration & simulation
 - 8:00 Show & Tell
 - 8:30 3D Theater
- 5:00 Coaches & Mentors Mtg.
 - NE FIRST Organization (Loretta Bessette)
 - PTC Resources (Jordan Cox)
 - STEM Certificate Program (Alyssa Walker)



- Team Alpha**
- Team Beta
- Team Gamma
- Team Delta
- Team Epsilon
- Team Zeta
- Team Eta

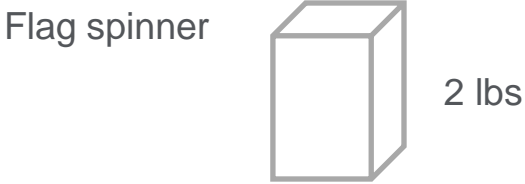
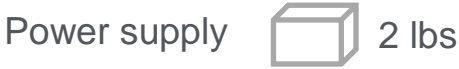
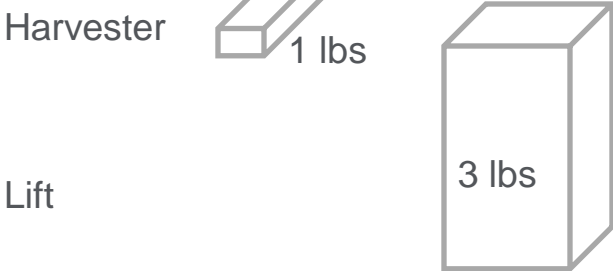
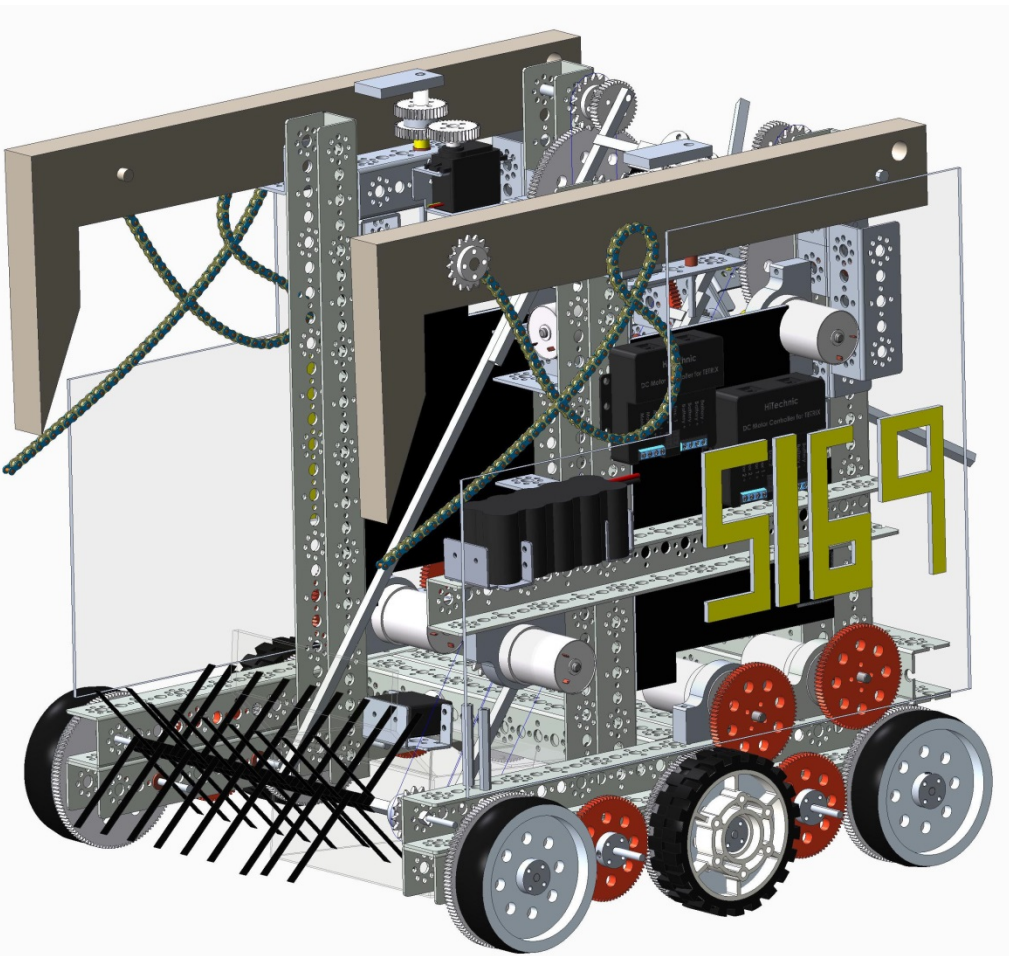


Create a rectangular box that will hold your robot



Divide your robot into subsystems

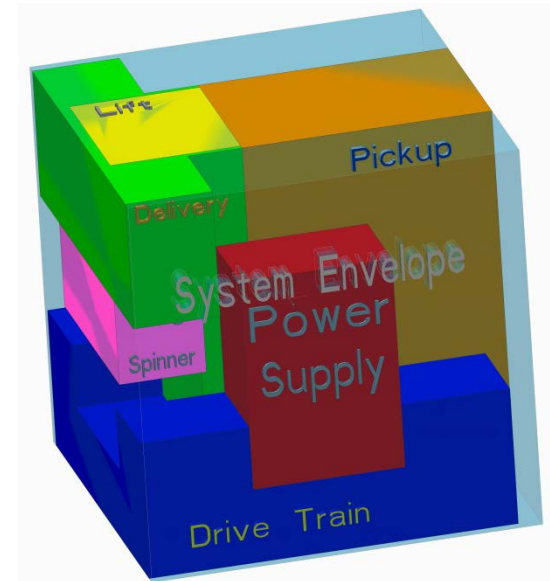
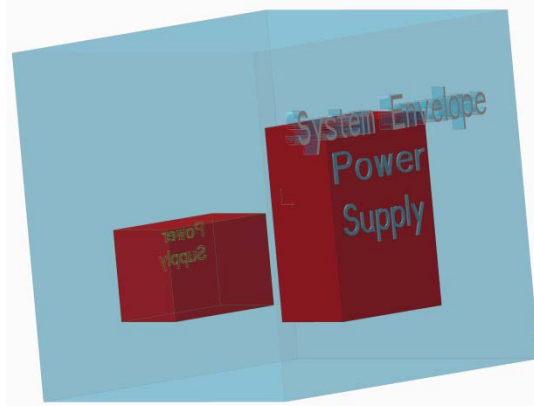
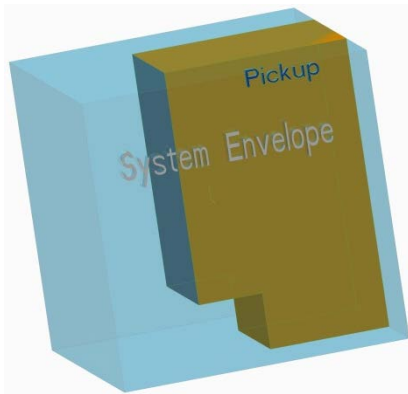
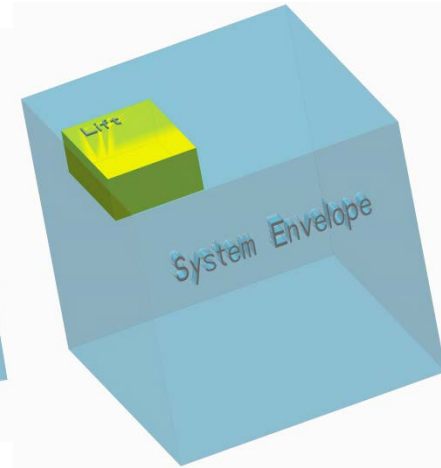
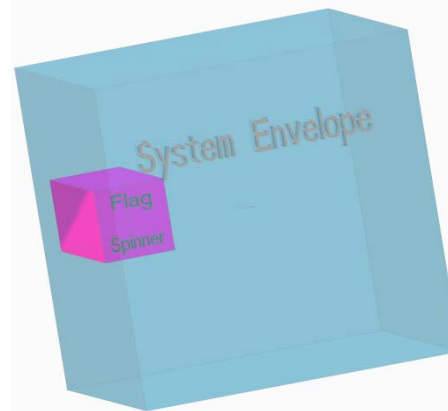
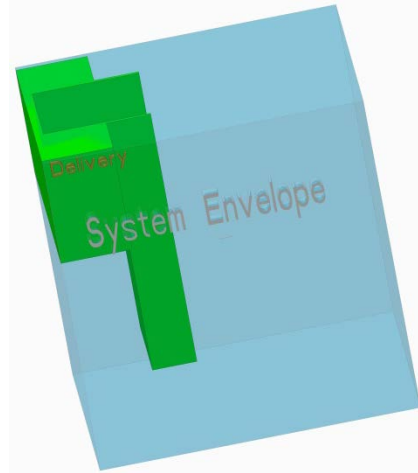
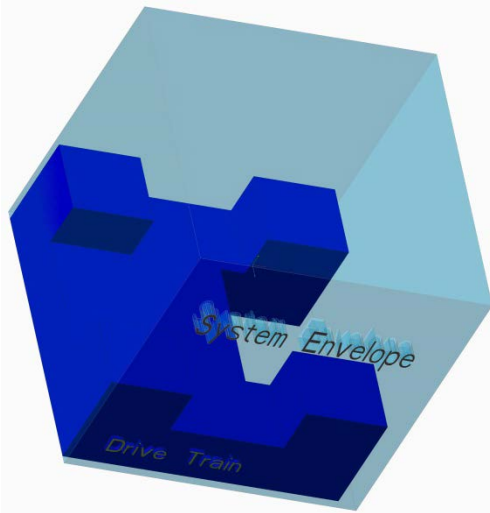
Then create rectangles to enclose each subsystem



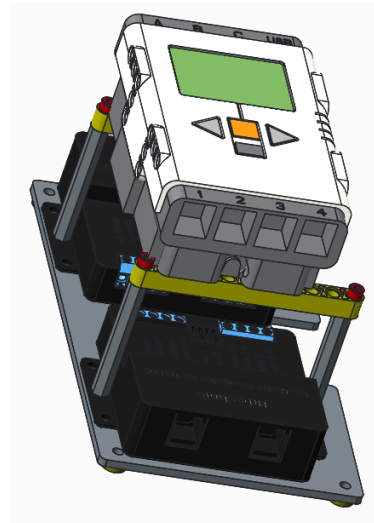
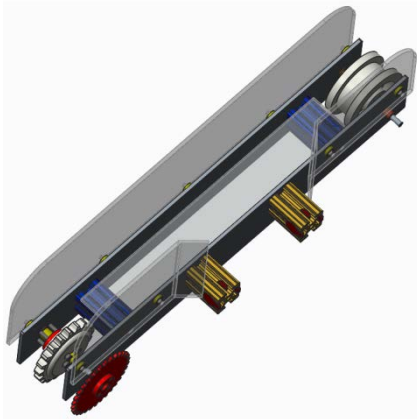
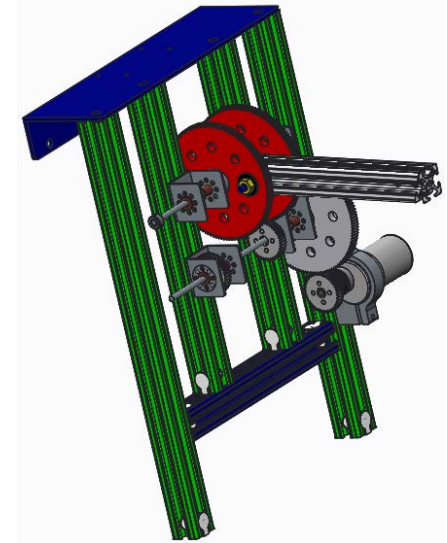
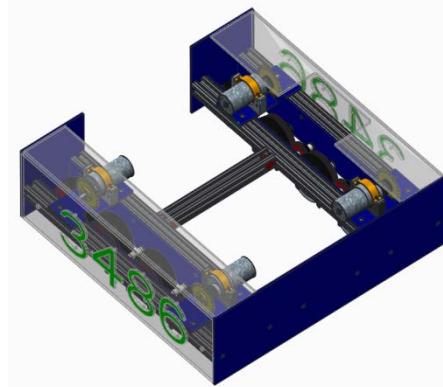
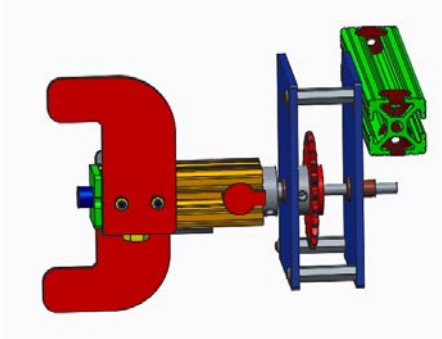
Assign Weights

Calculate overall weight and Center of Gravity

Team 3486 Techno Warriors PTC Design Award Winners FIRST World Championship



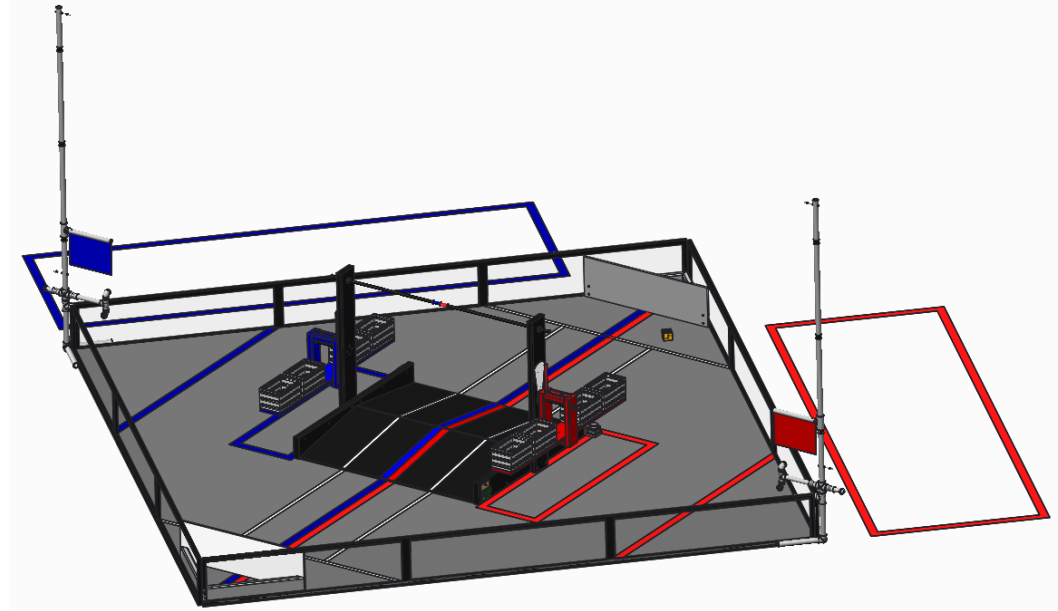
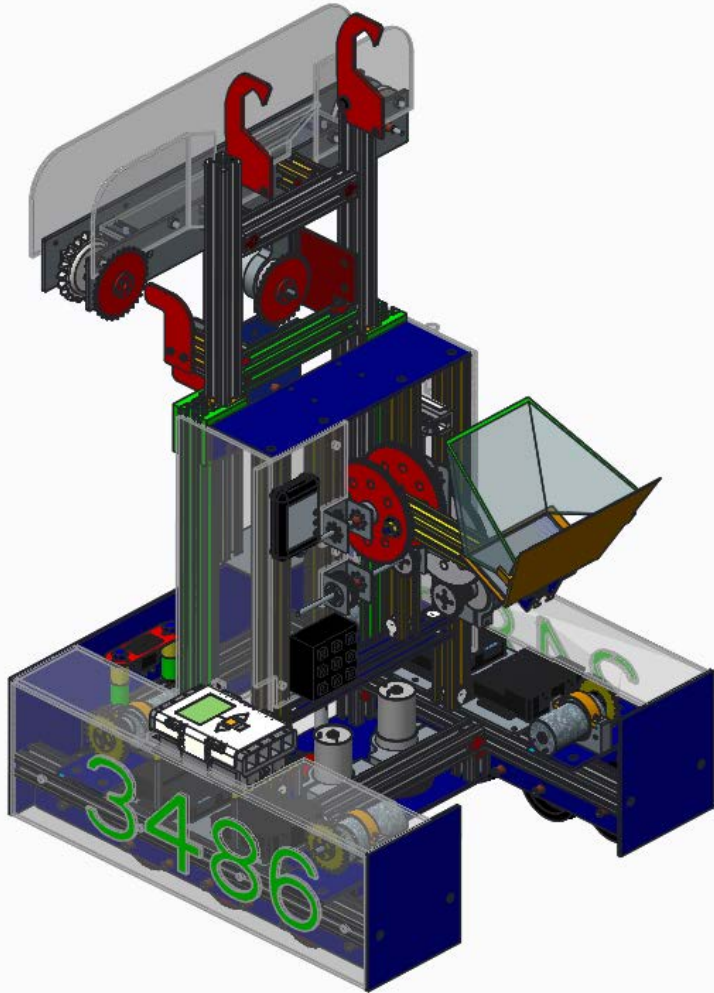
Divide into subsystem teams and model your subsystems using the kit of parts



[FTC Tetrax KOP - Block Party!](#)
[Download All CAD Models](#)

Integrate them into the Full Assembly

Place it on the field and do simulations



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ADVANTAGE[®]