

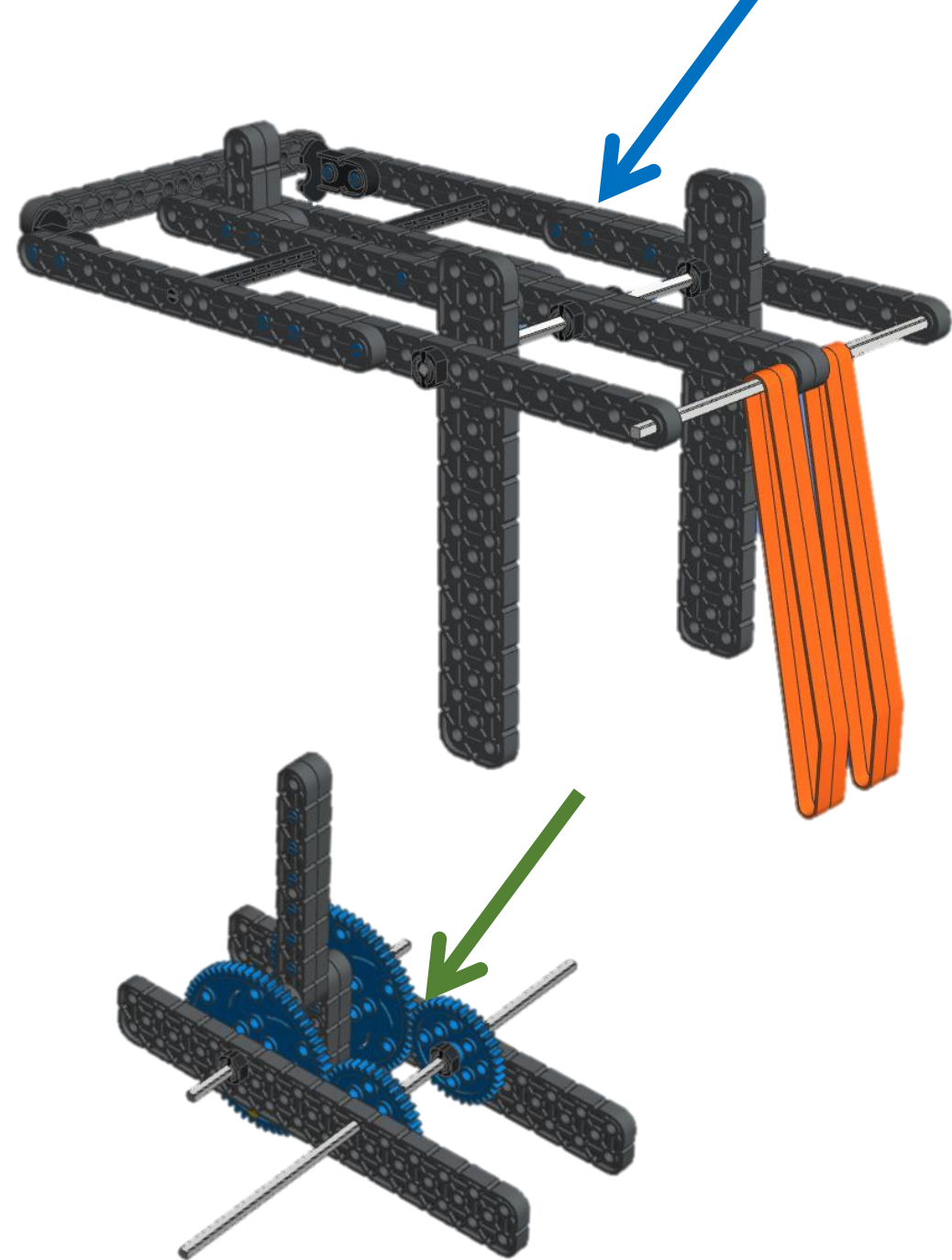
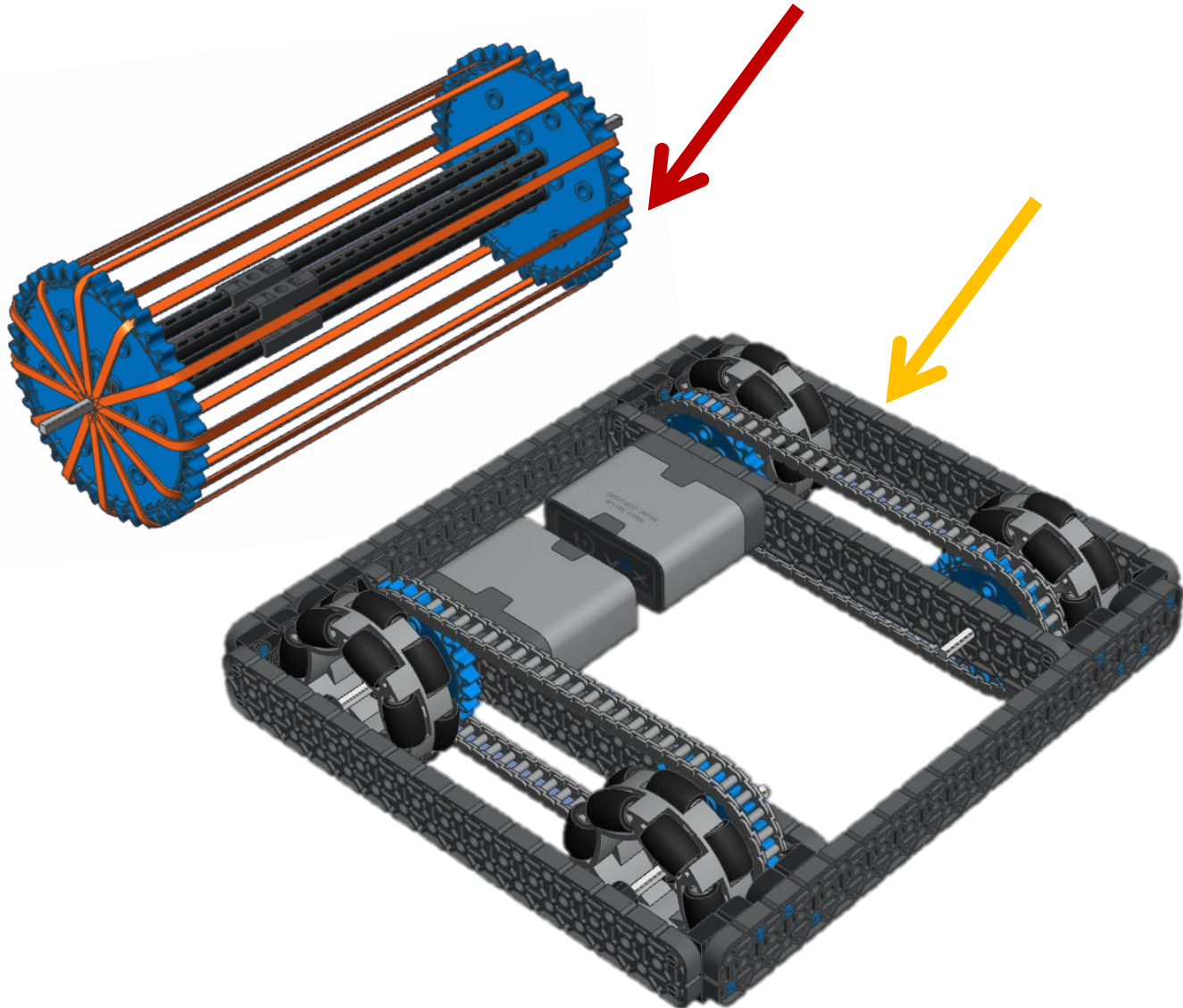
# Building Robots

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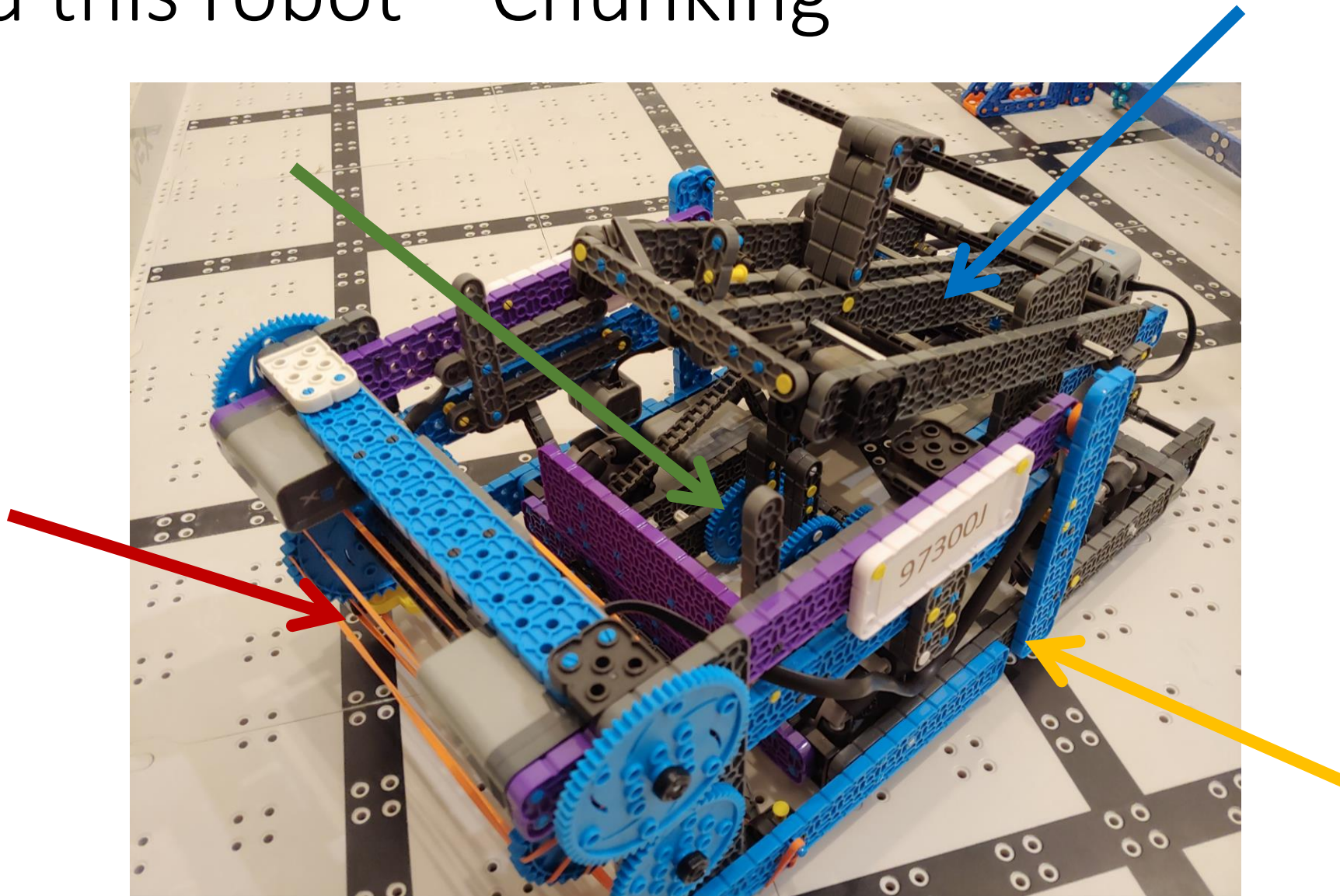


Coaching Resources  
Ben Lipper

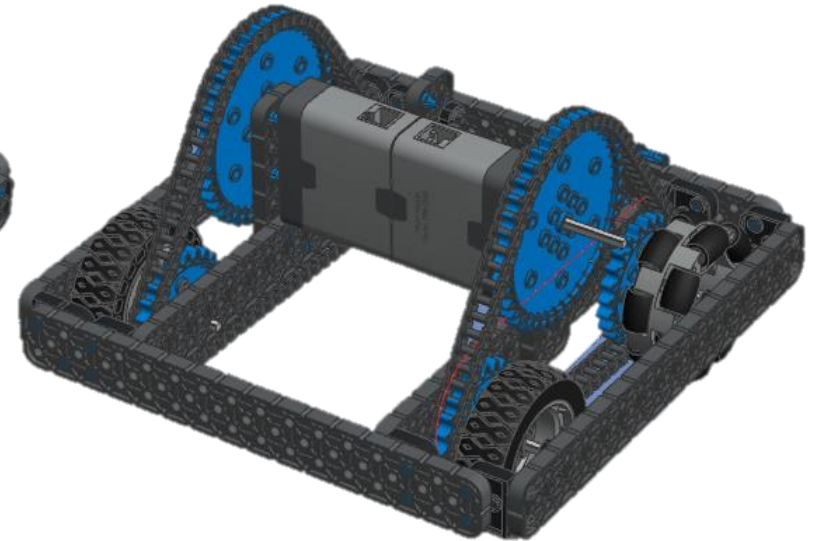
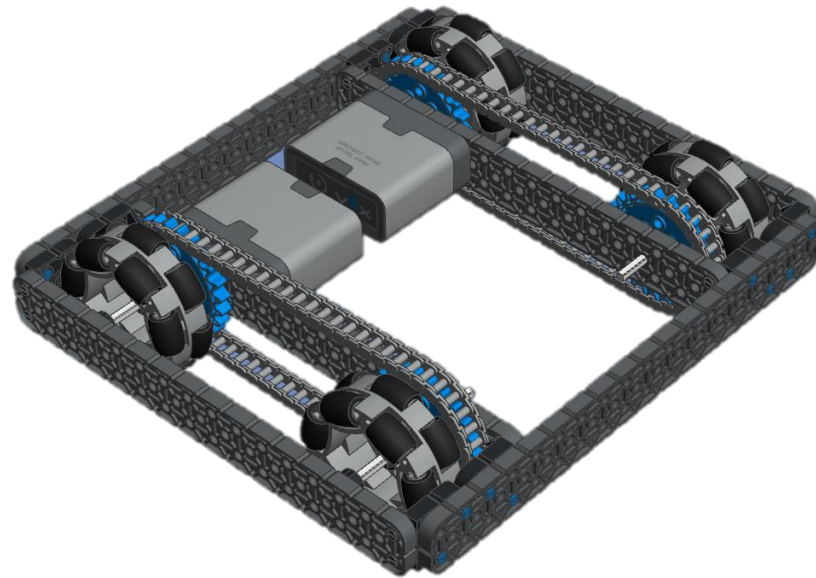
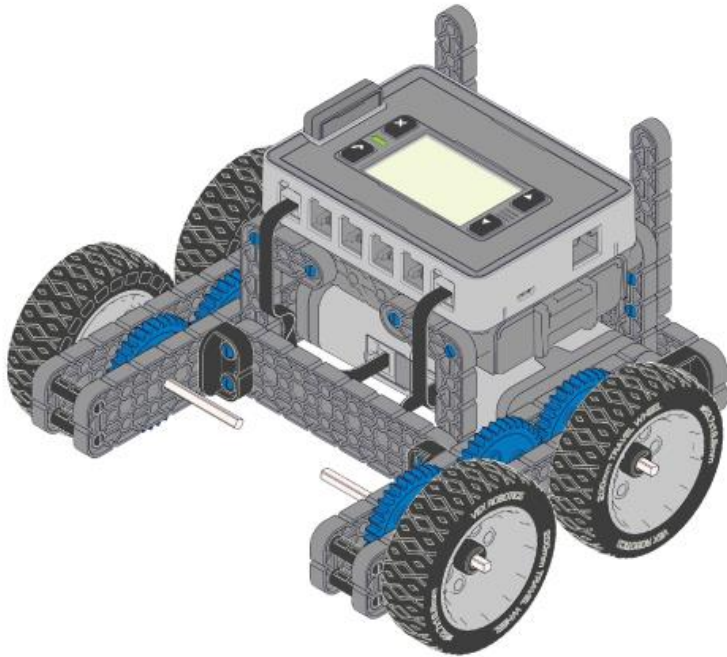
Build this robot – Chunking



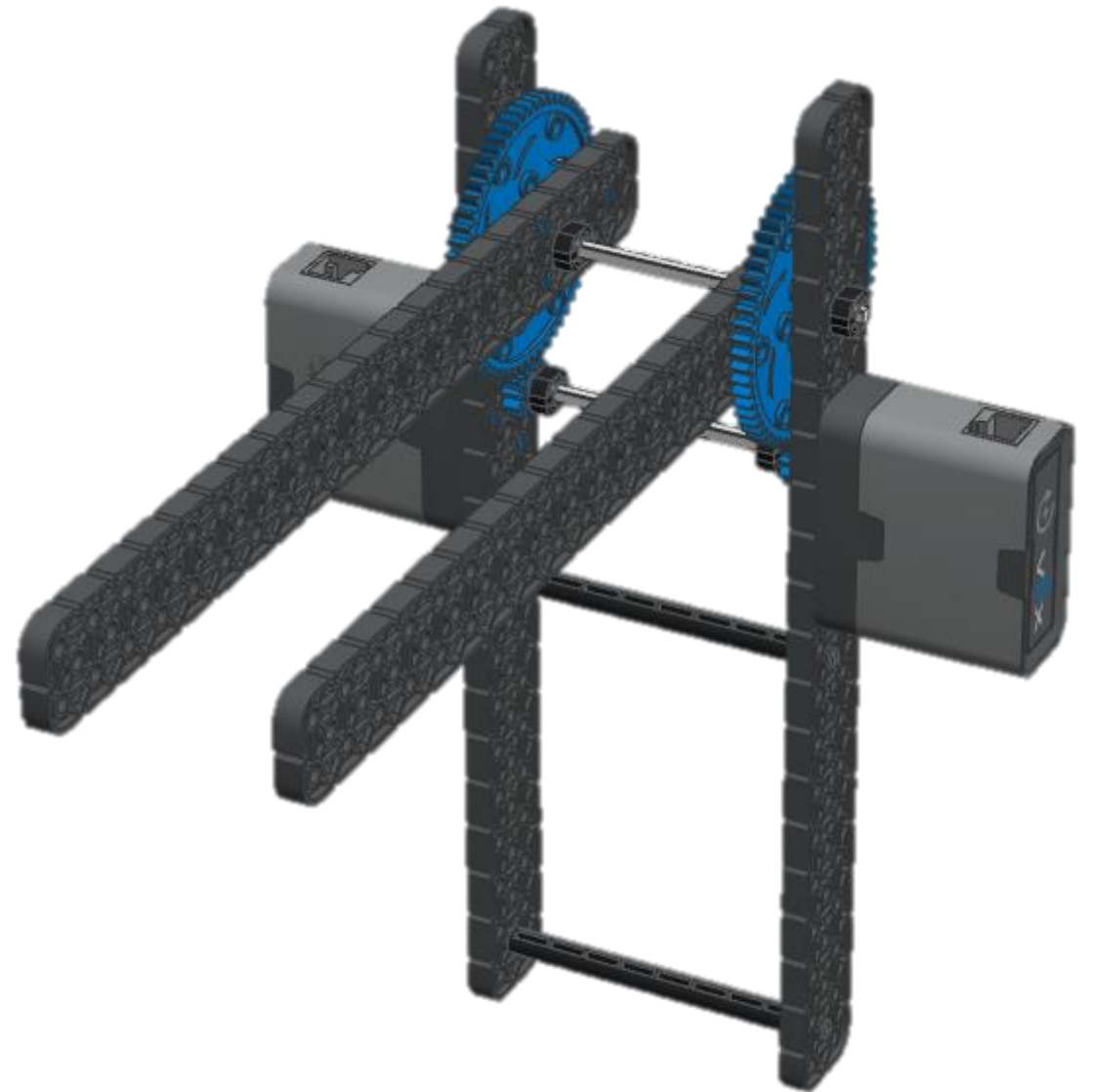
# Build this robot – Chunking



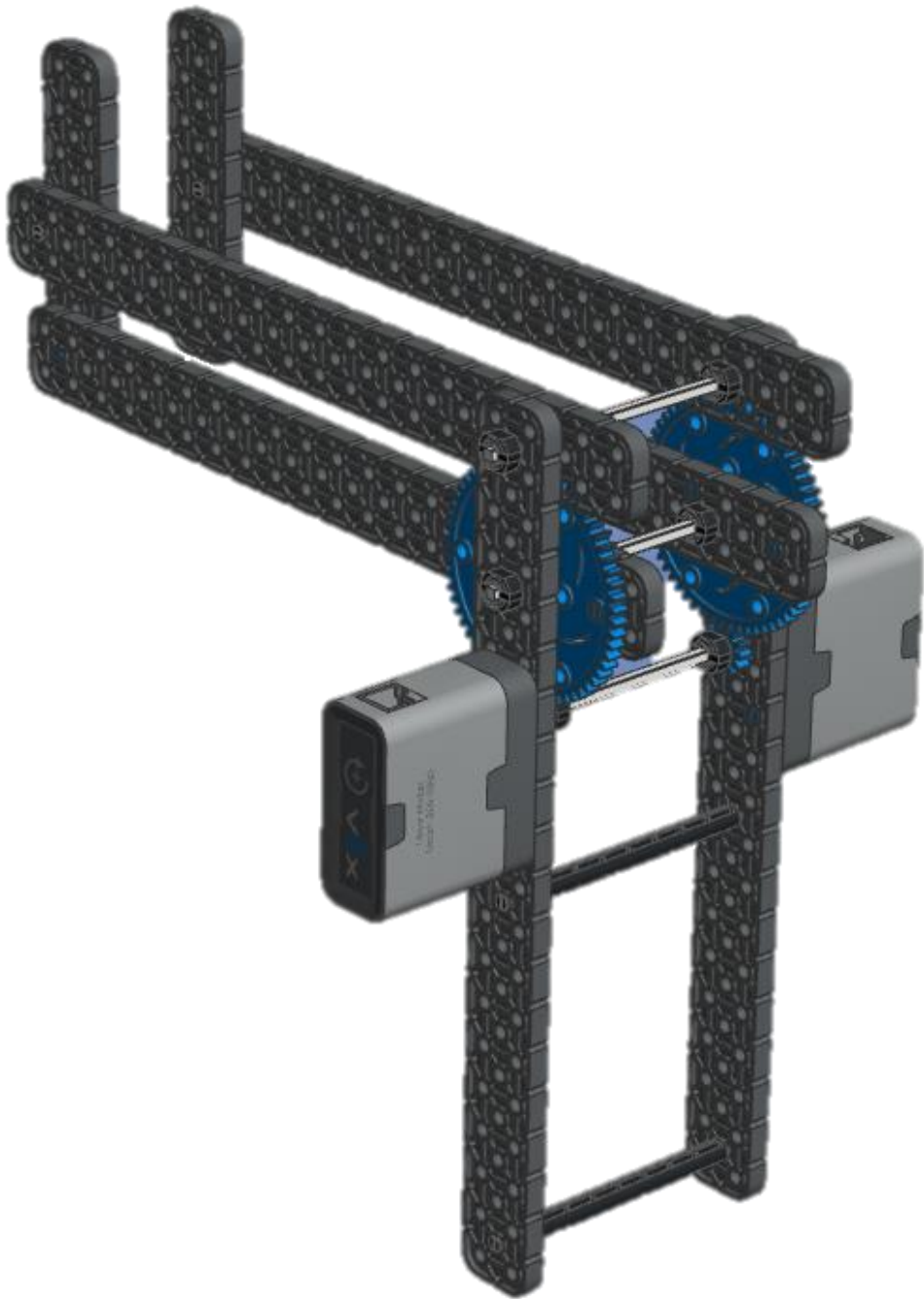
# Different robot models



# Single-jointed arm - Geared



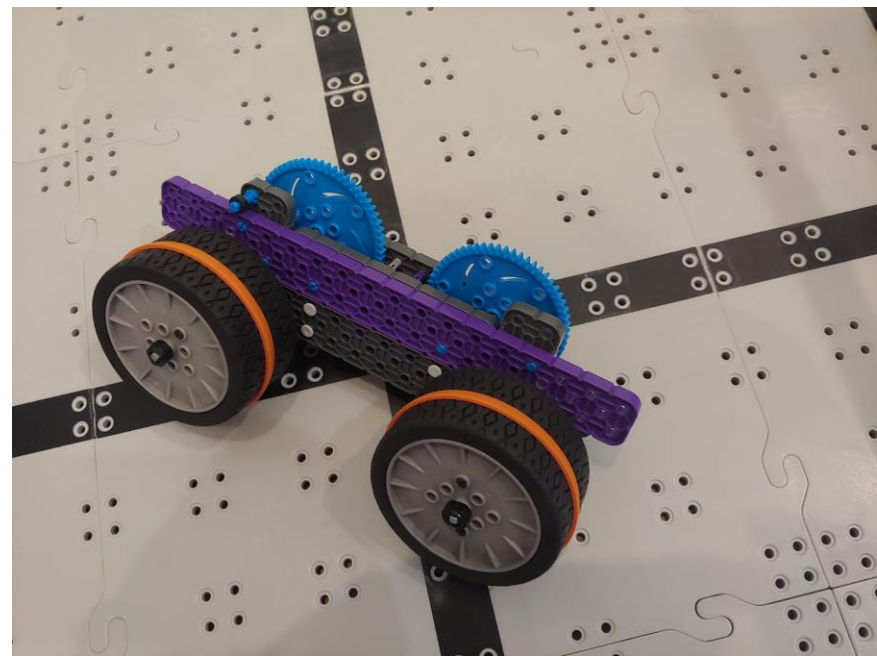
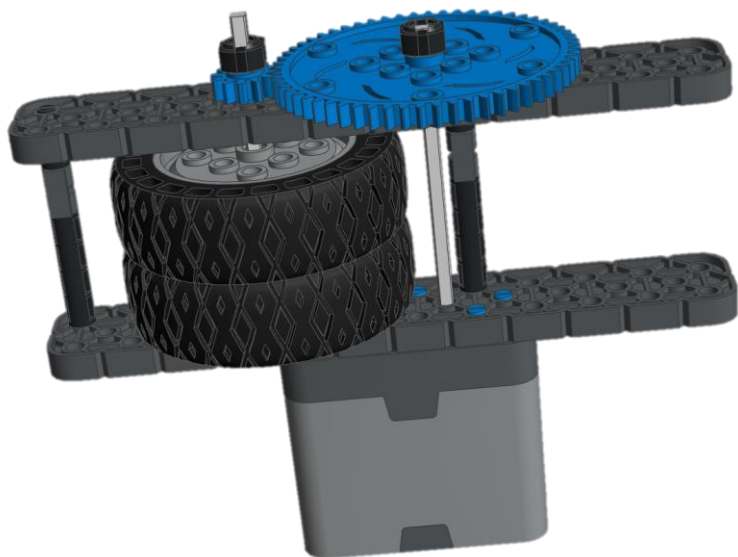
4-bar arm





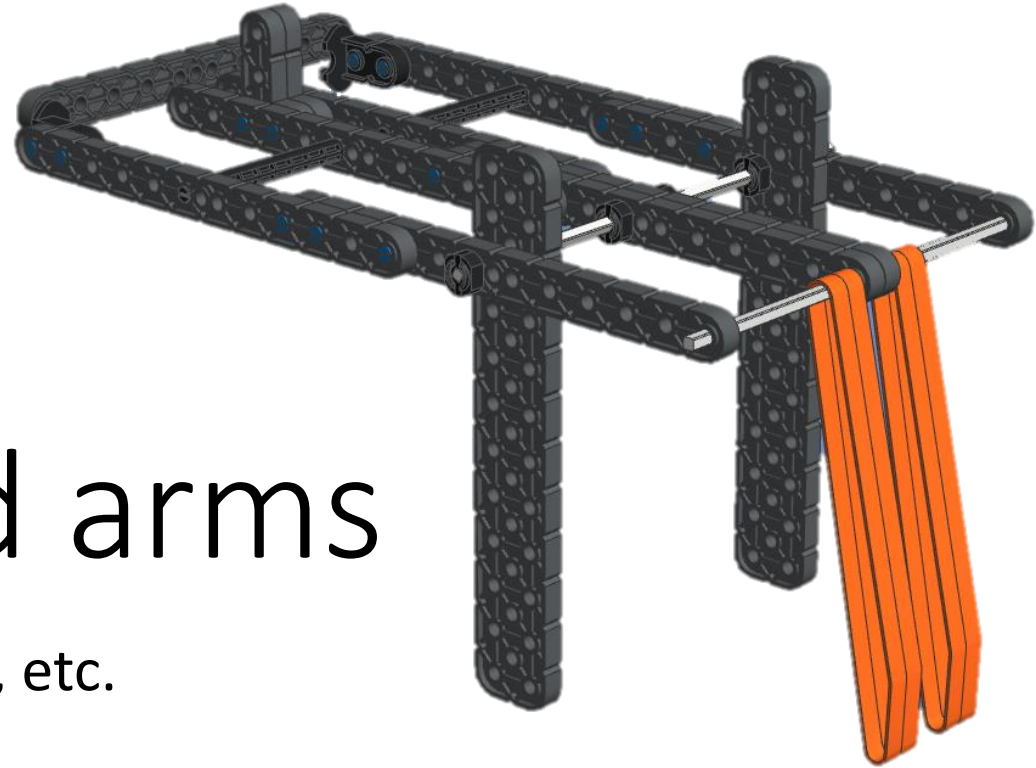
# Flywheels

Angular Kinetic Energy



# Rubber-band arms

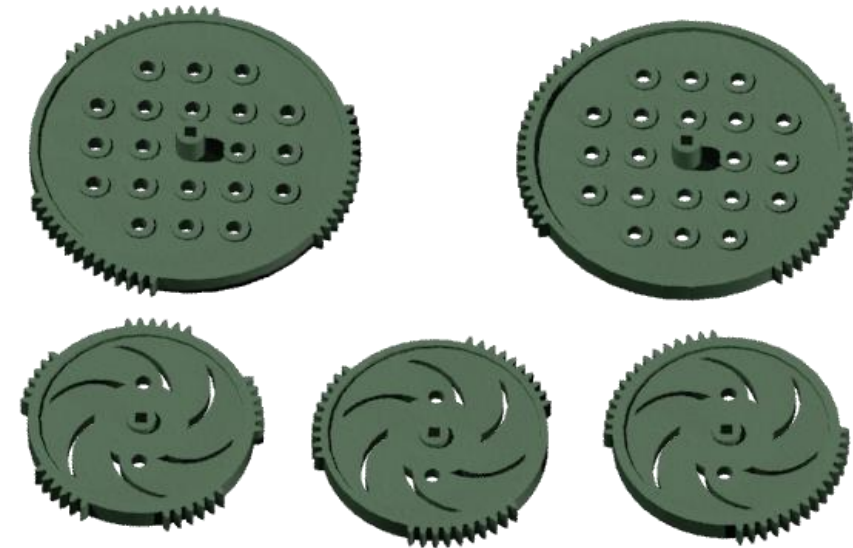
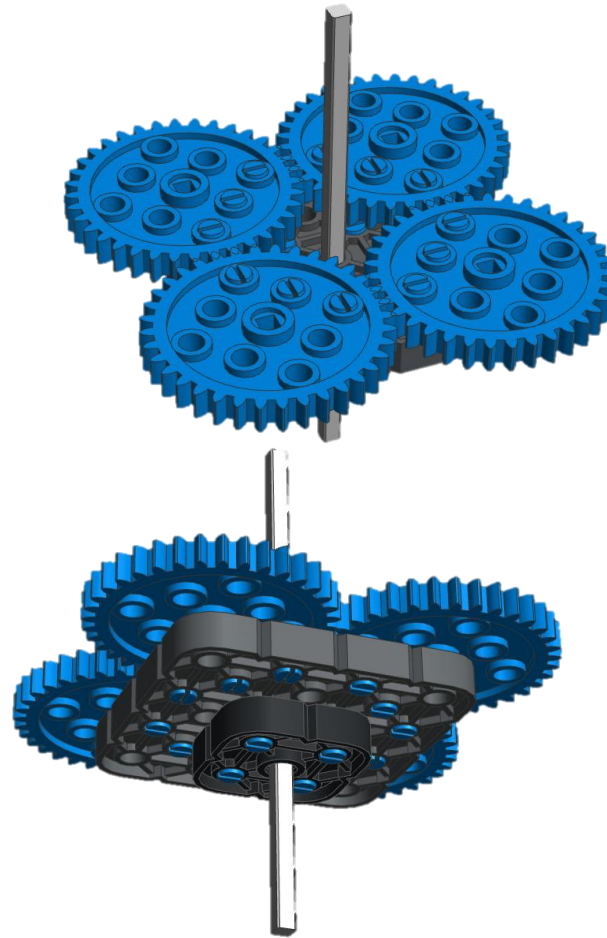
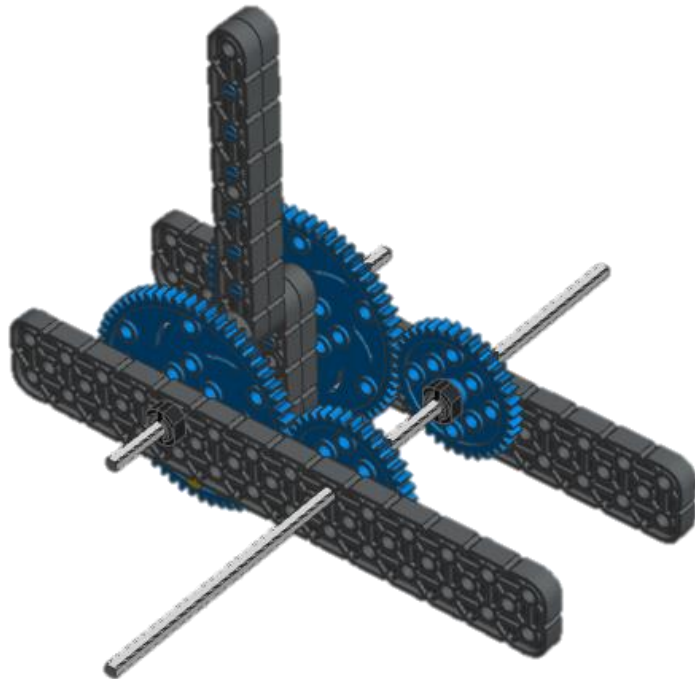
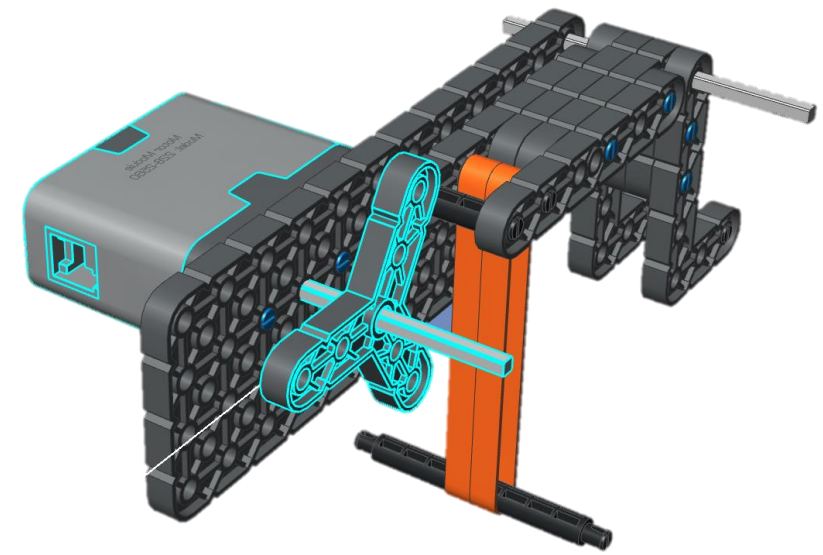
Catapults, Launchers, etc.





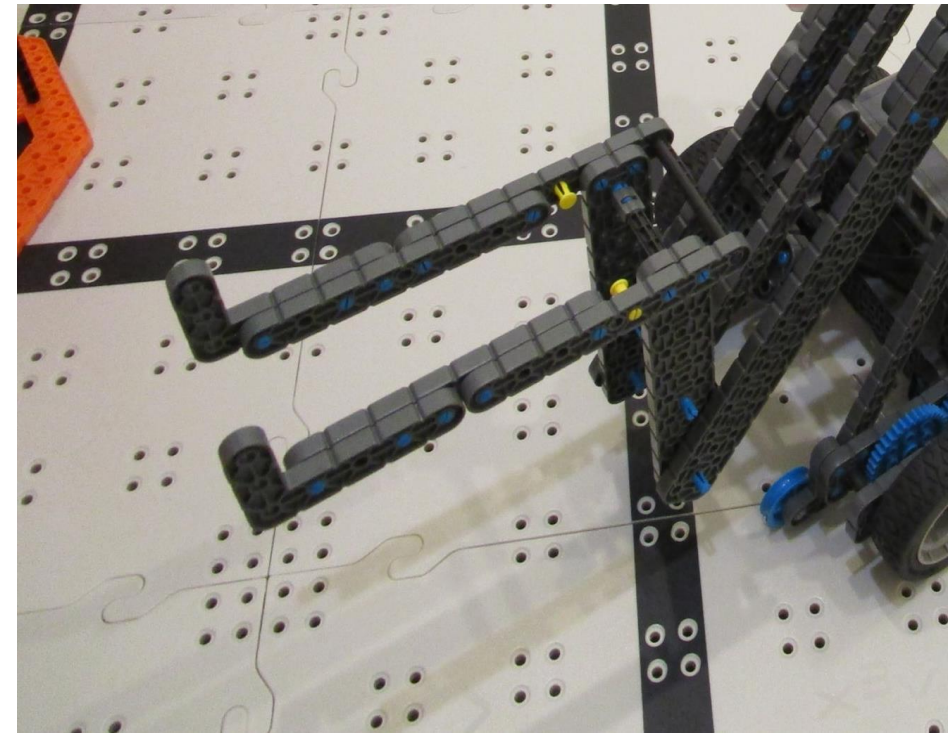
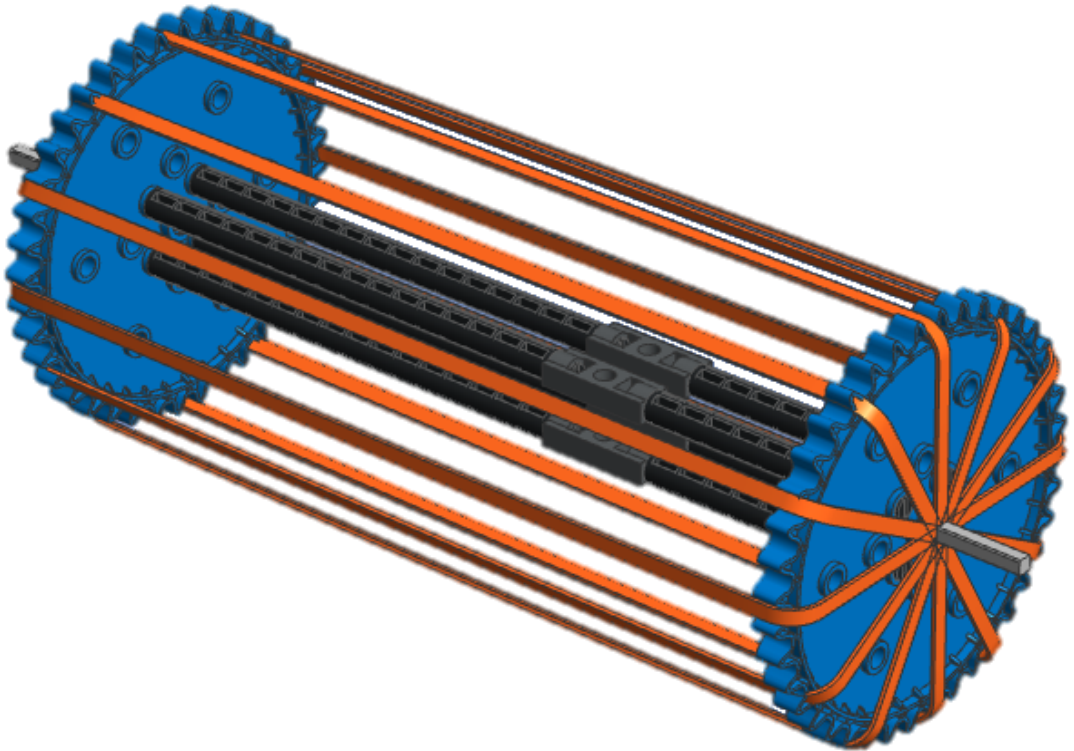
# Pull-back-and-release

- Simple star spinner
- Choo-Choo
- Slip-gear

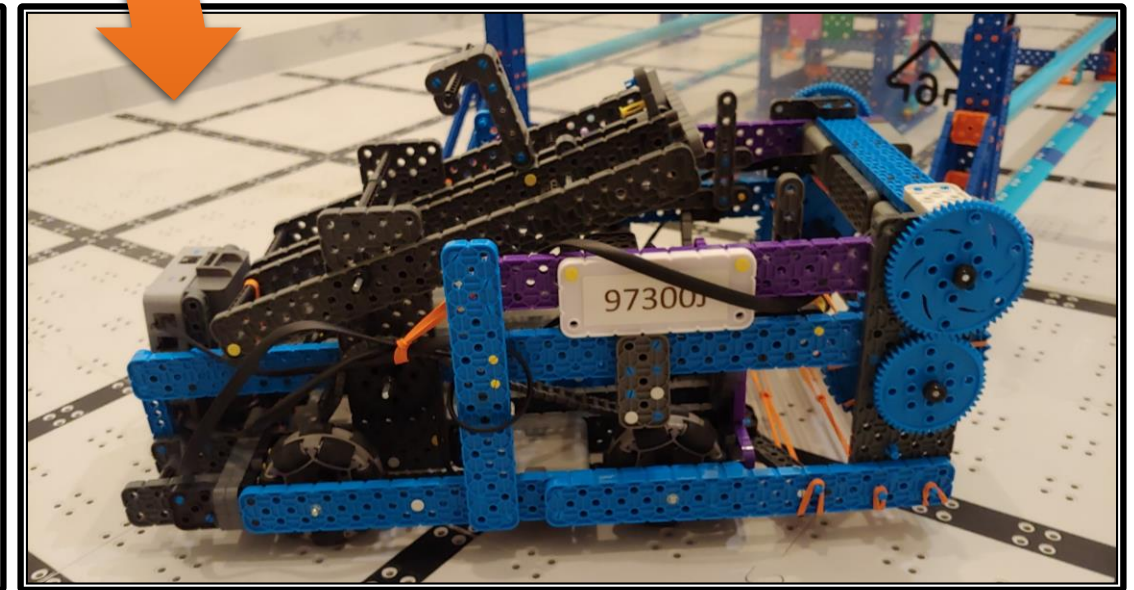
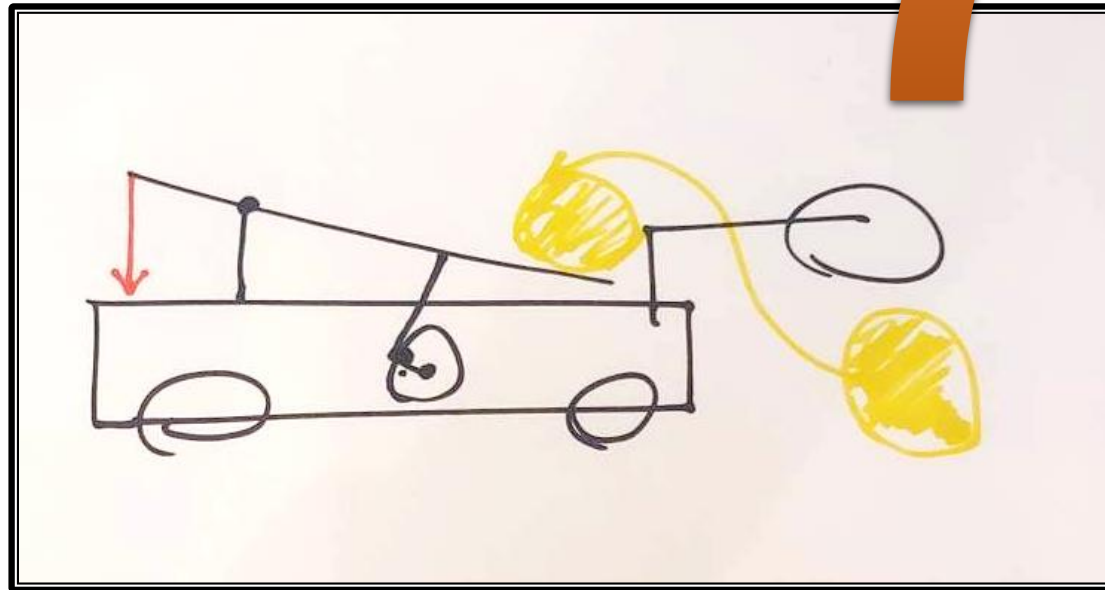


# Rolly-Grabbers

- Great for balls, small objects
- Not so great for large objects – use a claw



# Putting the subsystems together - Example



# Putting the subsystems together - Example

