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SEEDSEEK Meeting 2

6/10/2025





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What Did We Learn?

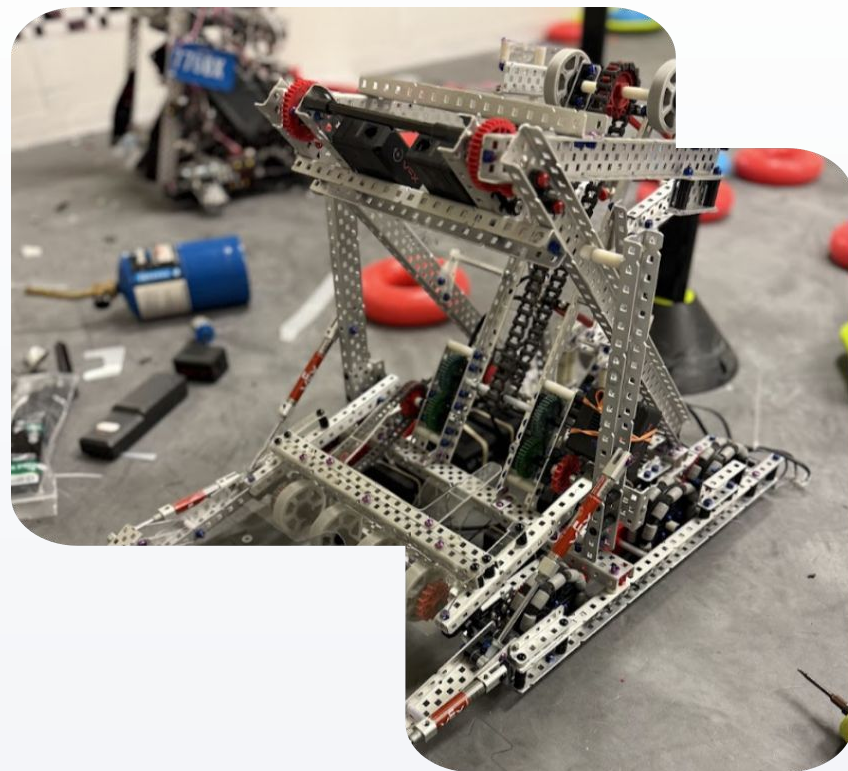
Building

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Problem Solving

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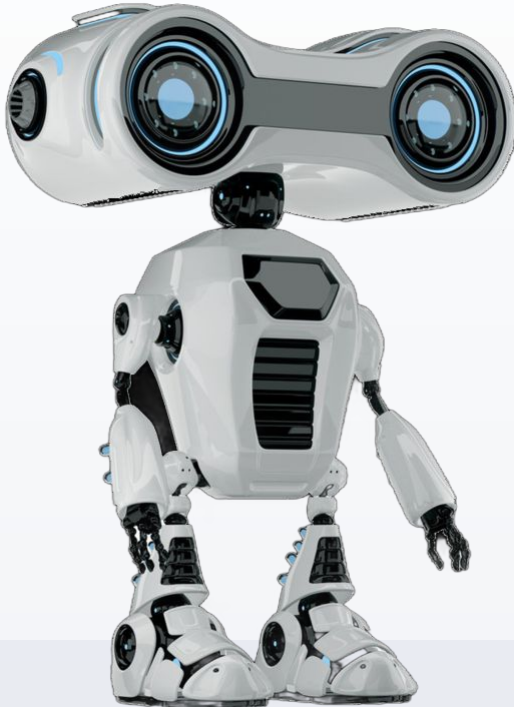
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Today's Skill: Gearing!



Why and How?

- Gearing allows you to connect independent subsystems.
- We will use gears to connect the two wheels on each side of the drivetrain.
- Any ideas on why we should do this?
- Gears will rotate in opposite directions when they are side by side.



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Gear Ratios

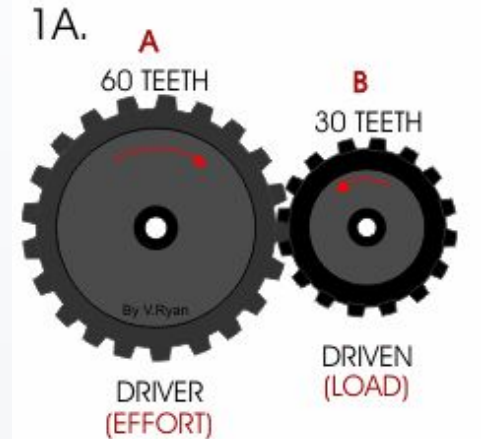
If the motor rotates at a set speed how can we make different subsystems run at different speeds?

Short answer: Gear Ratios

- Created by connecting different-sized gears to create a ratio, allowing for the gears to complete rotations at different speeds.

Assessment (*figure 1A*)

- If gear A is rotating at 100 rpm (rotations per minute), how fast is gear B spinning?
- What about the reverse?
- If we were to make a drivetrain putting one wheel on each gear, what would the two problems be?





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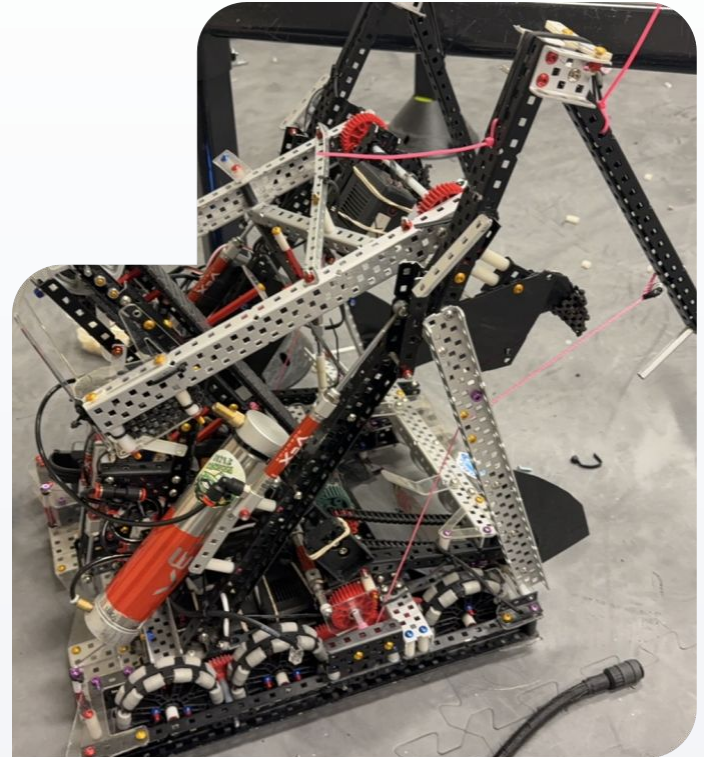
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Today's Goals

- + Day 1 review
- + Finish the robots
- + Practice driving / Soccer
- + Break Time!
- + Design documentation





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Let's Get Started

