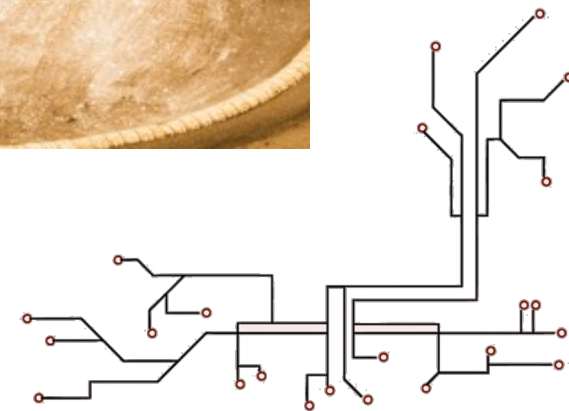
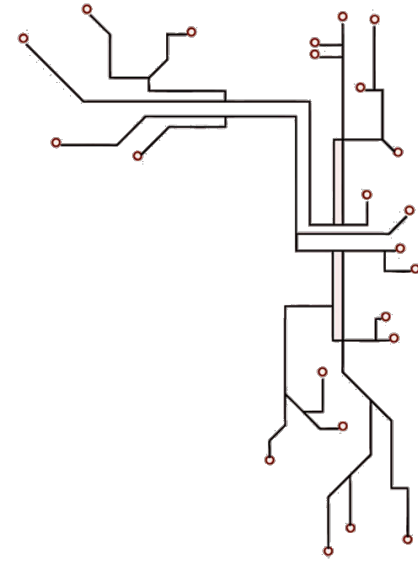
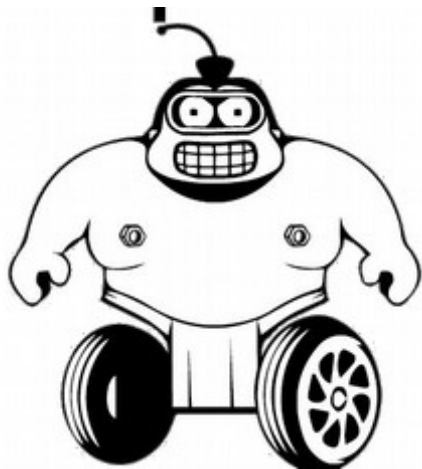


SumoBot

- Ultrasonic Sensor (Review)
- How to SumoBot

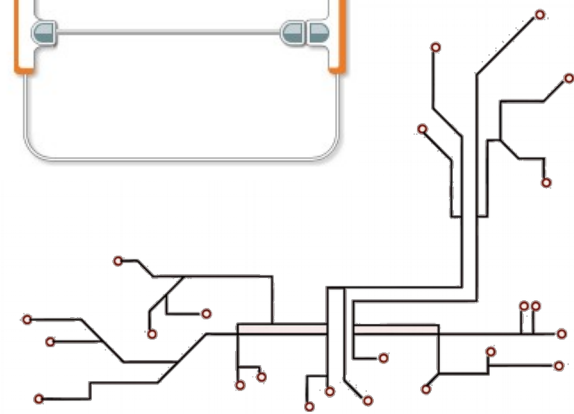
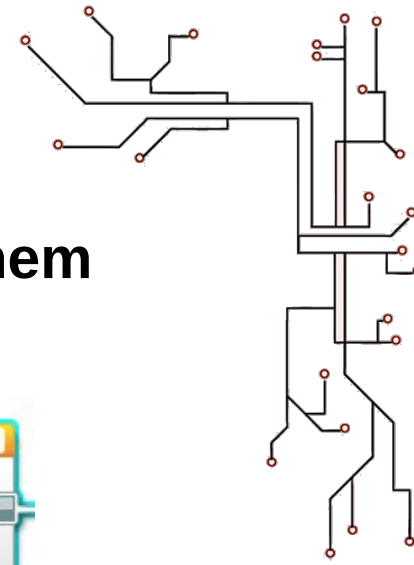
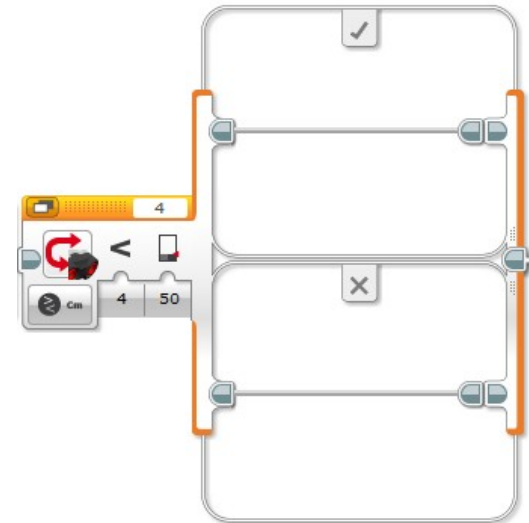
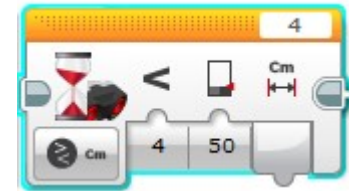
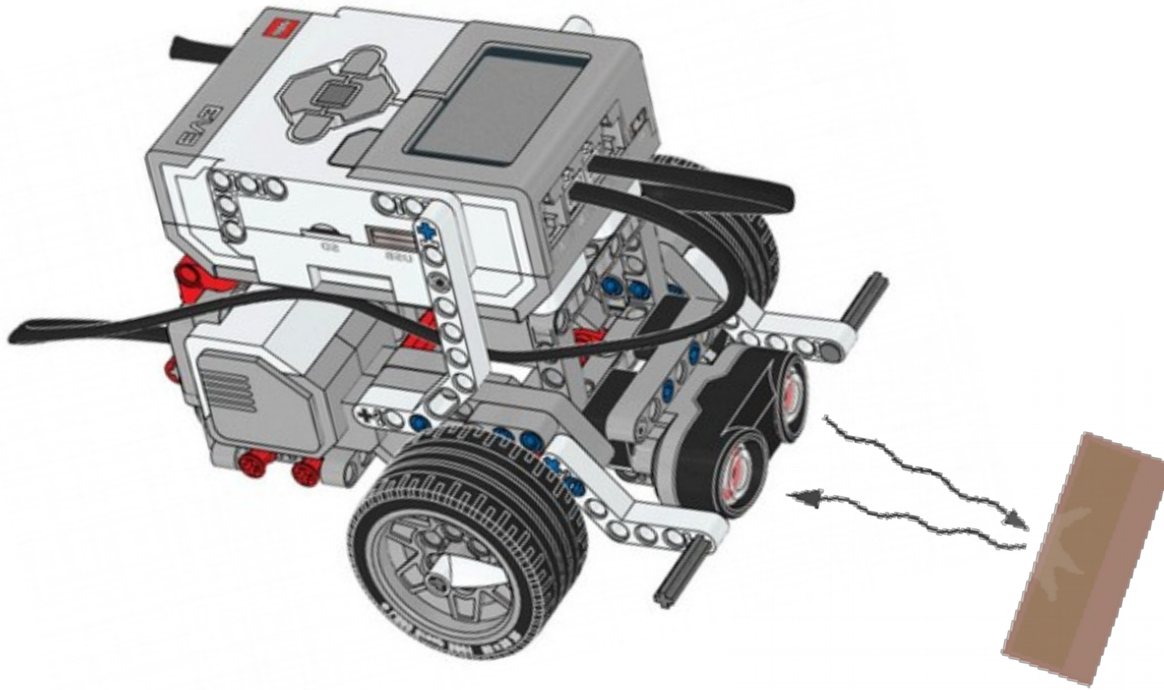


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Ultrasonic Sensor Review

Ultrasonic Sensors Can “Hear Obstacles” In Front of Them



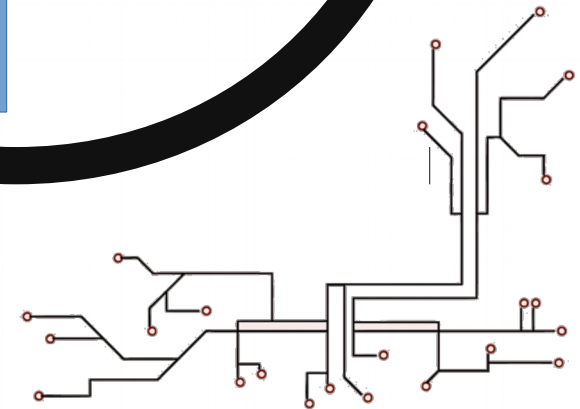
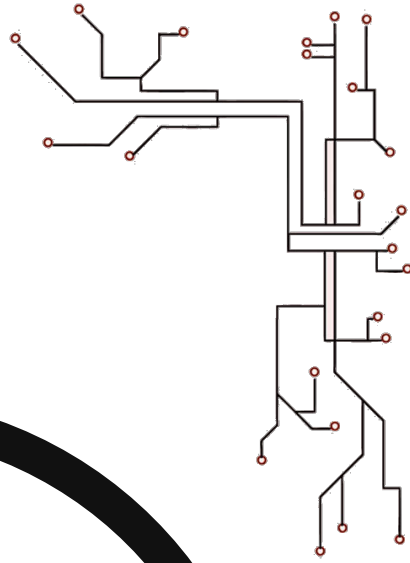
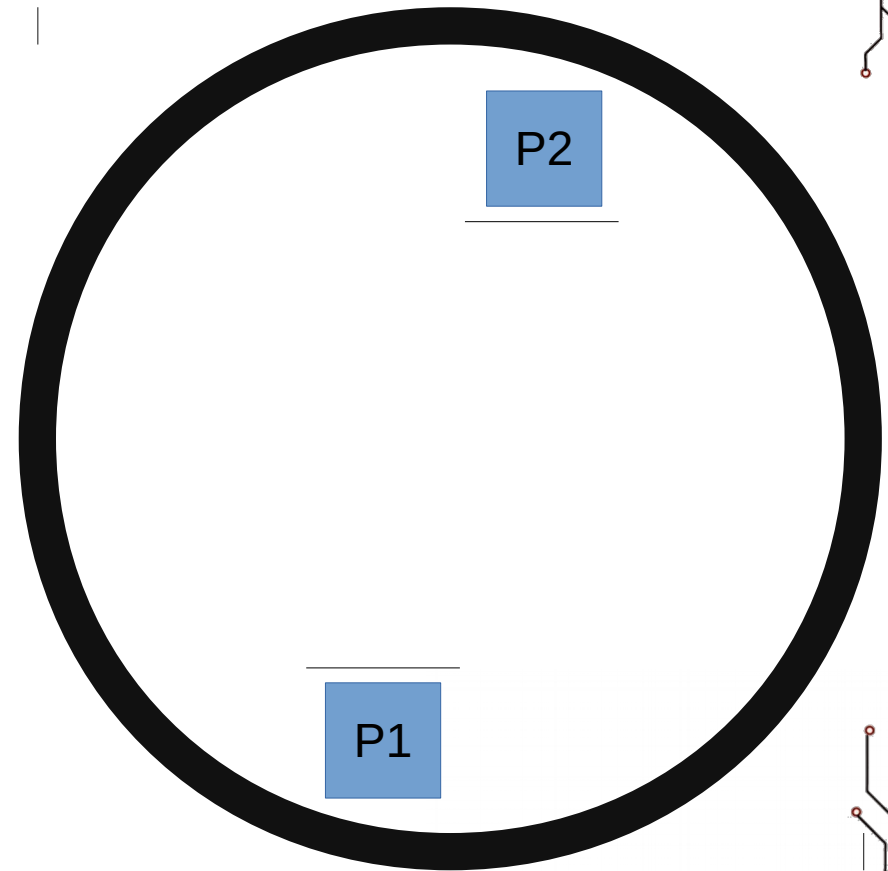
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SumoBot Competition

SumoBot Rules

- Match Teams: 2
 - Match Length: 3 mins (or less)
 - Match Rounds: 3
 - Winner: Best of 3 rounds
-
- Start in opposing sides of ring
 - Win a round when other robot crosses the boundaries out



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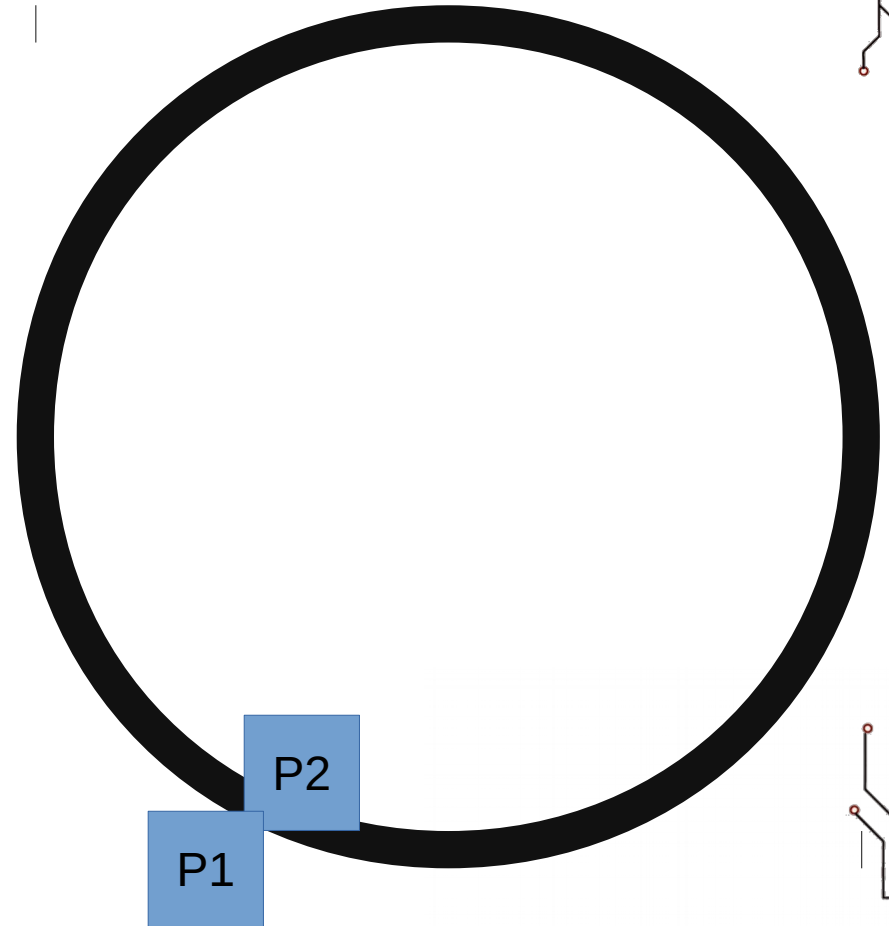
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SumoBot Competition

SumoBot Rules

Example:

- Team P2 wins this round

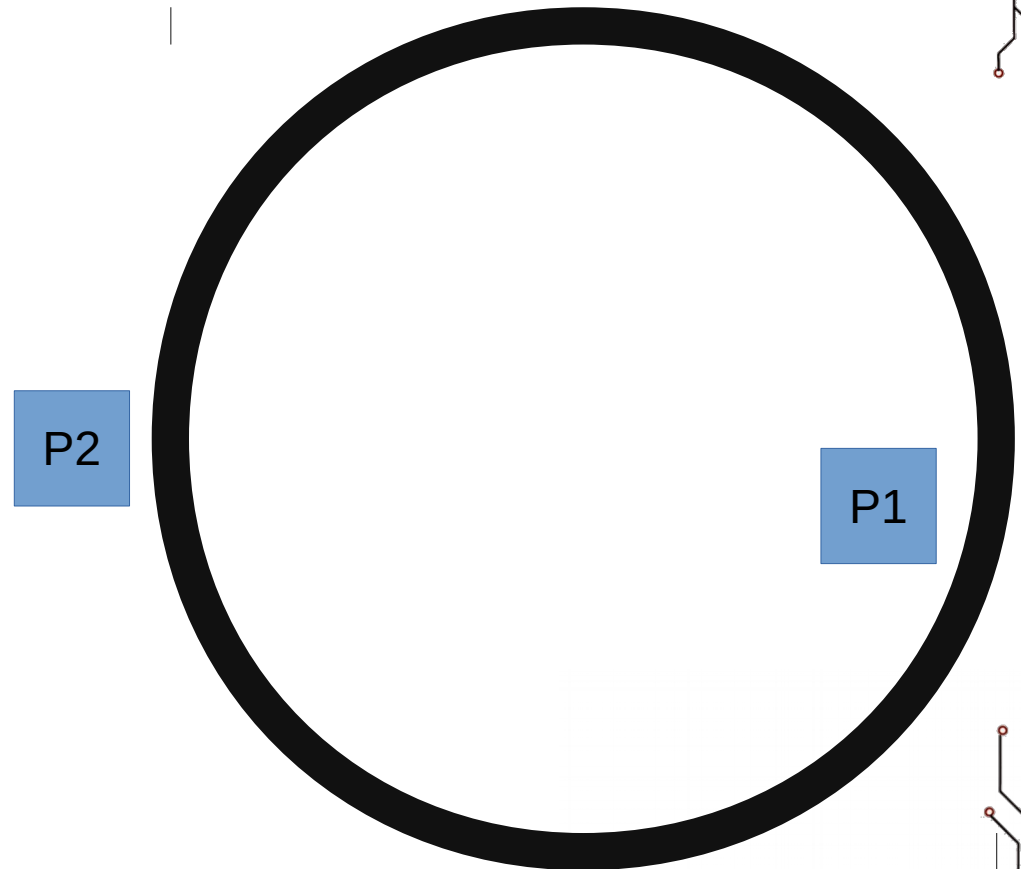


SumoBot Competition

SumoBot Rules

Example:

- Team P1 wins this round



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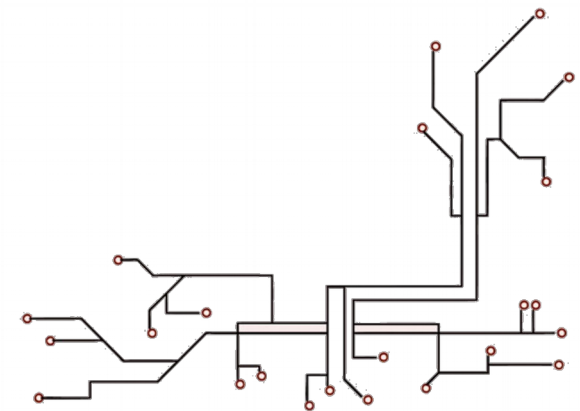
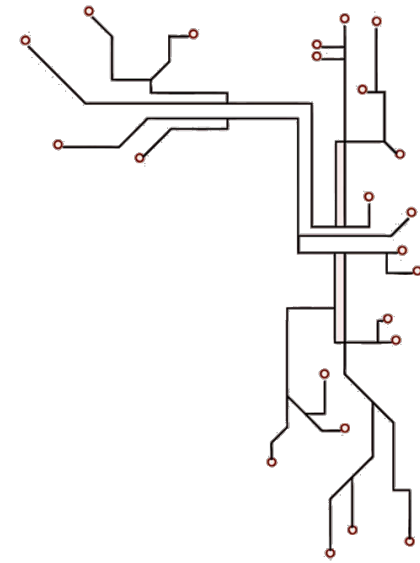
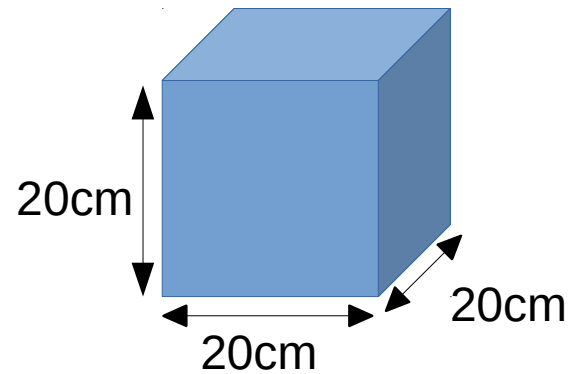
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SumoBot Competition

Qualification

Robot

Dimension Limits: 20cm x 20cm x 20cm



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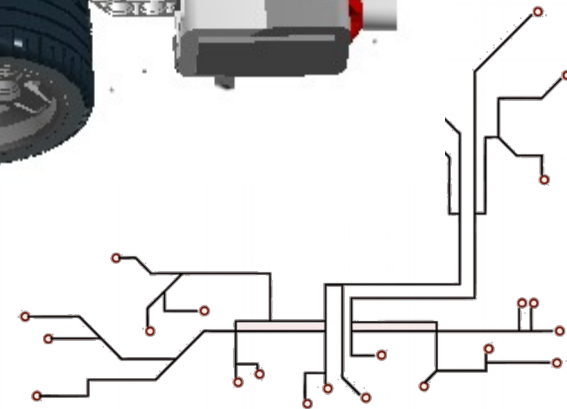
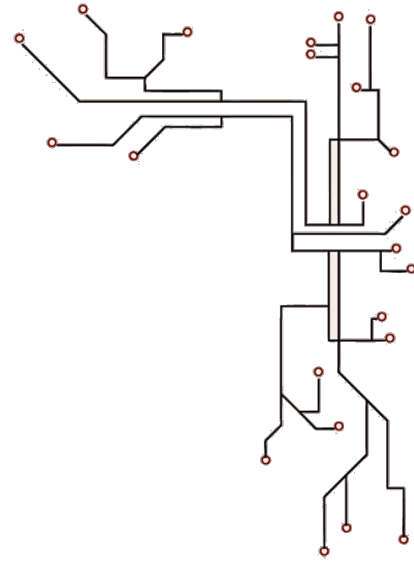
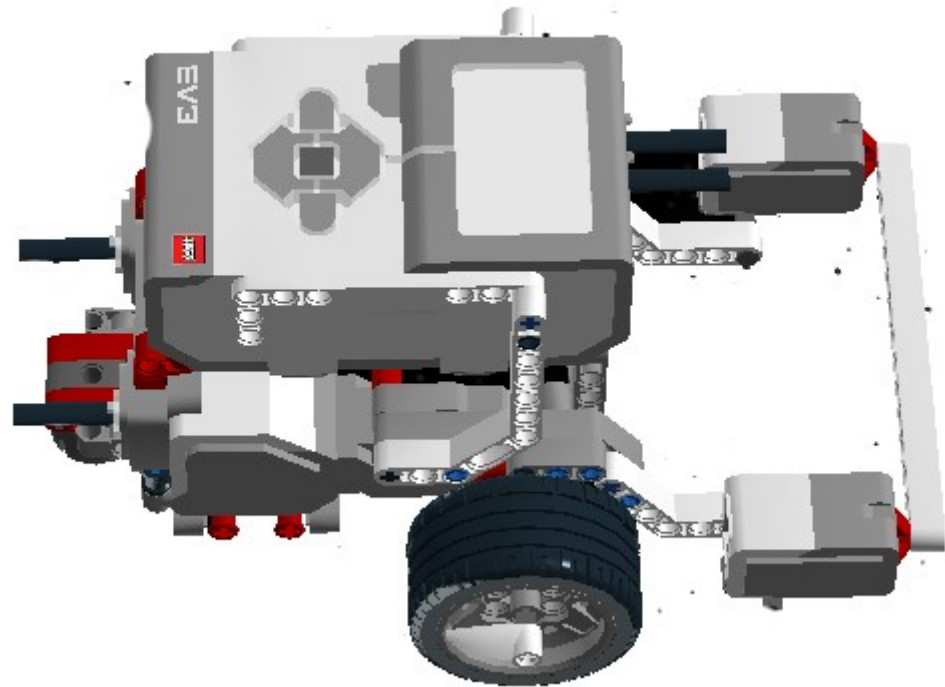
Qualification

Robot

Must Pass NewtonMeter Test:



Min to Qualify: ?



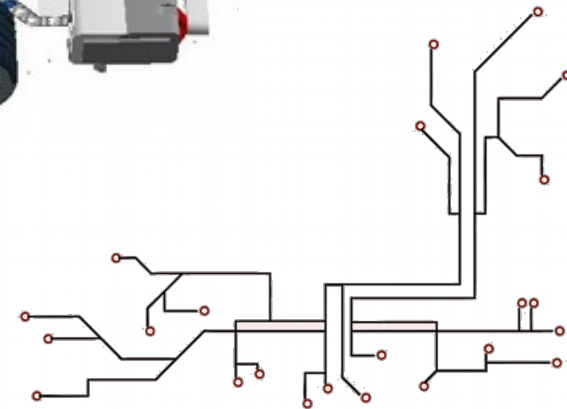
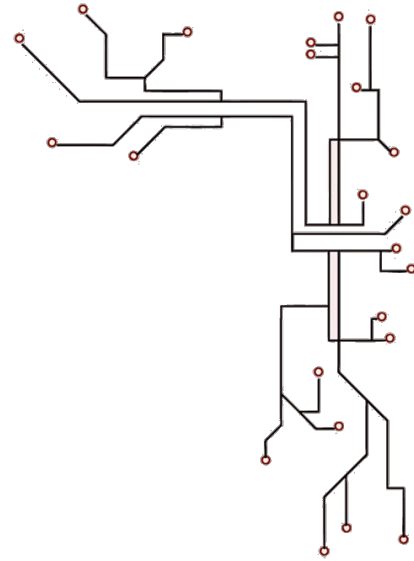
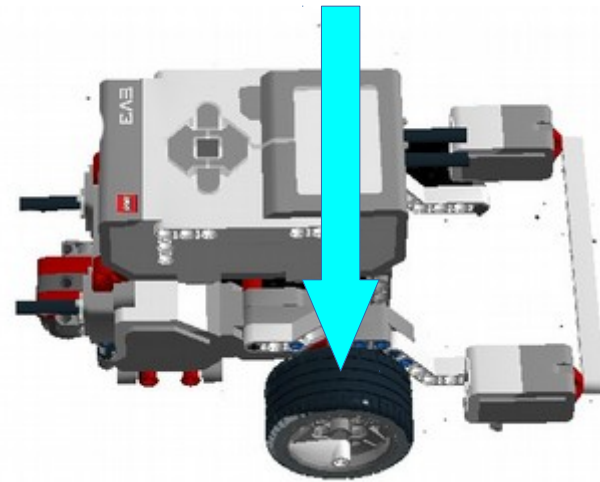
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NewtonMeter Test:

- What factors determine Robot's pull/push force?
 - Center of Mass
 - With Relation to Wheels
 - TRACTION



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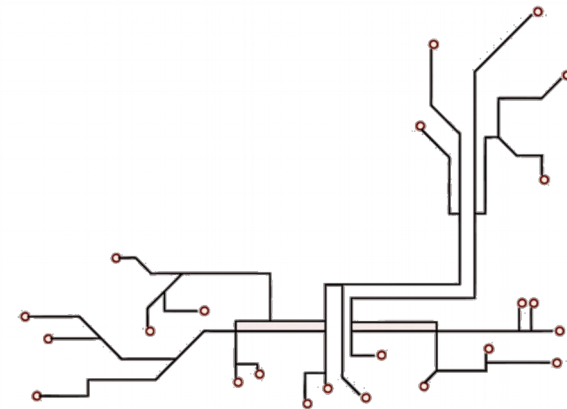
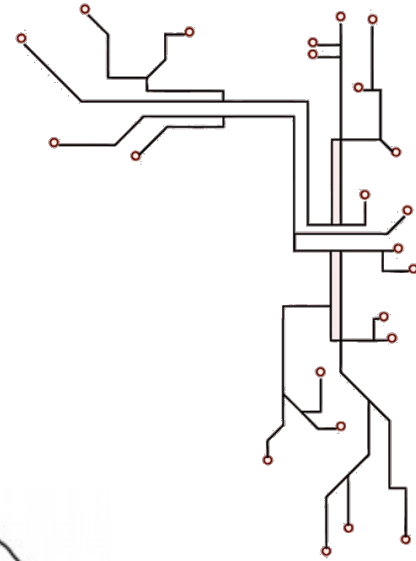
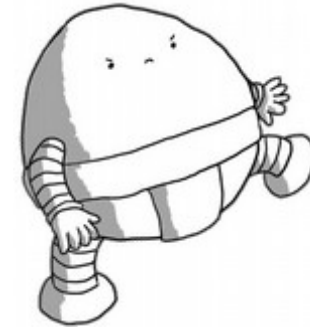
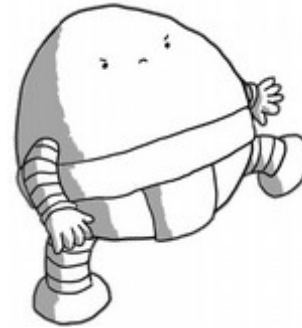
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SumoBot Competition

READY?

SET

GOOOOOOO!

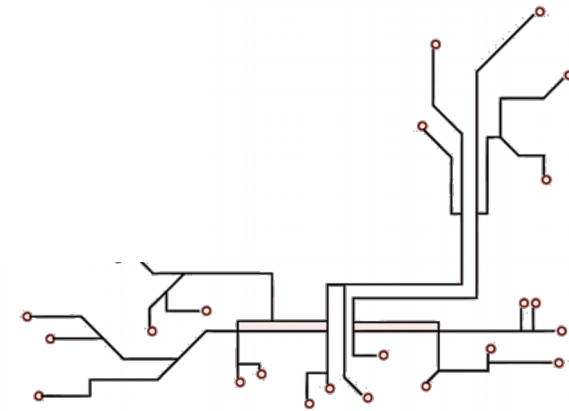
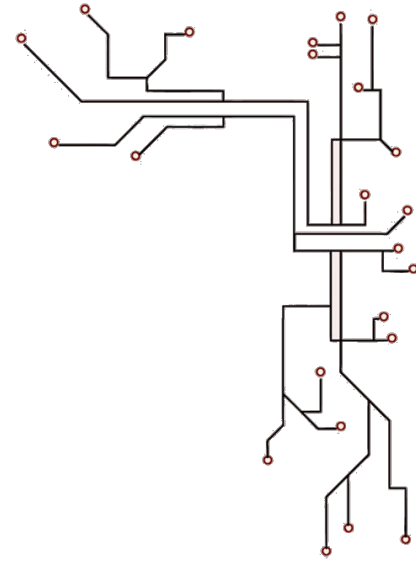
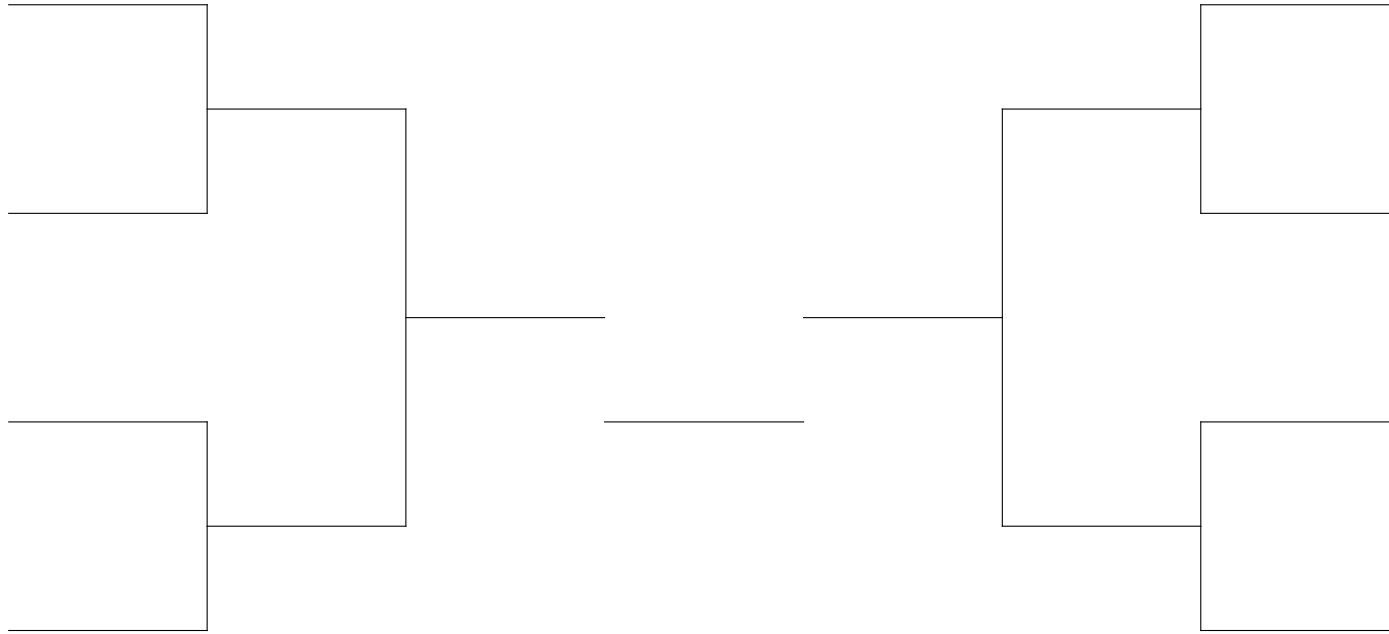


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