



**Team Pancakes**

**Team 2910**  
**Preliminary Robot Design**

Students

Mentors

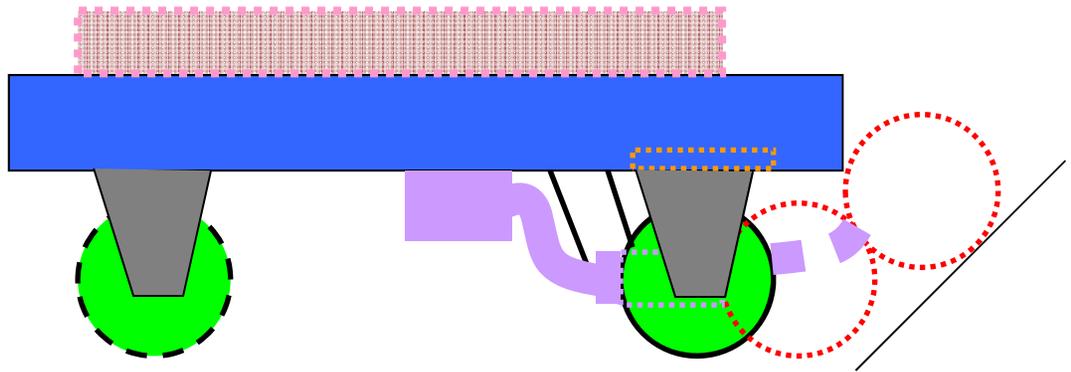
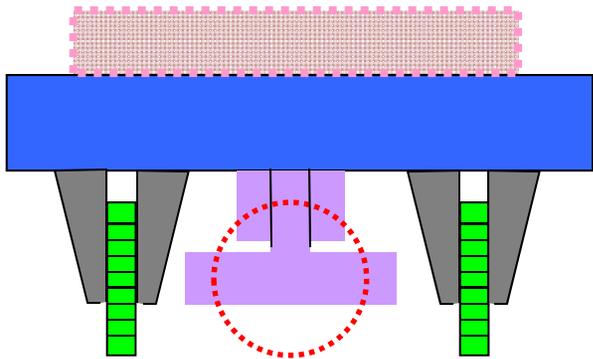
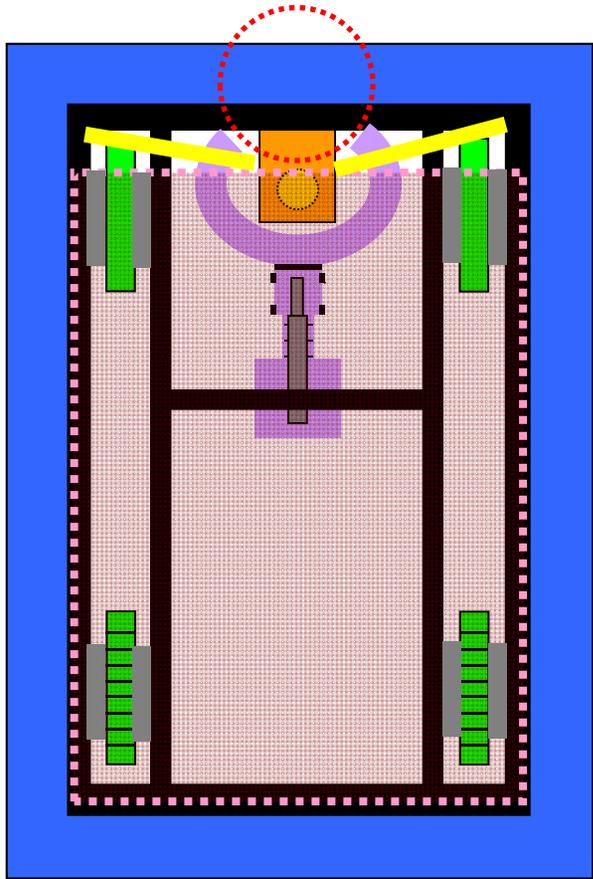


# Summary of Requirements

- Under the tunnel Y
- Over the bump Y
- Right self if flipped Y
- Right teammate if flipped N
- Shoot ball in air Y
- Shoot ball on ground Y
- Hang own robot Y
- Opportunity to hang from us Y
- Short range score (same zone) Y
- Long range score (different zone) N
- Goal tending / defense device N
- Ball dribbling device Y

# High Level Components

- Long Stance Chassis
- 4WD Tank Drive
  - 4 CIMs
- Extending Vacuum + Capture Rollers
  - Possess a ball over the bump
- Adjustable Kicker
  - Sloped hockey puck
- Tower Arm
- Self Right
  - Combine with Tower Arm?
- Electrical / Programming



# Subteam Weight Budget

● Integration	N/A
● Chassis + Drive Train	50
● Vacuum + Capture	10
● Kicker	15
● Tower Arm	10
● Self Right	10
● Electrical	15
● Programming	0
● Mentor Budget	10
TOTAL	120

# Subteams

- Integration John & Brian
- Chassis + Drive Aleks & Tony A
- Vacuum + Capture Dave W B
- Kicker Dave M & Travis B
- Tower Arm Joel & Paul A
- Self Right Aleks A
- Electrical Dave M B
- Programming John

Su	M	T	W	R	F	Sa
Open	A	B	A	B		A+B

Weekdays	4-8
Saturday	10a-12