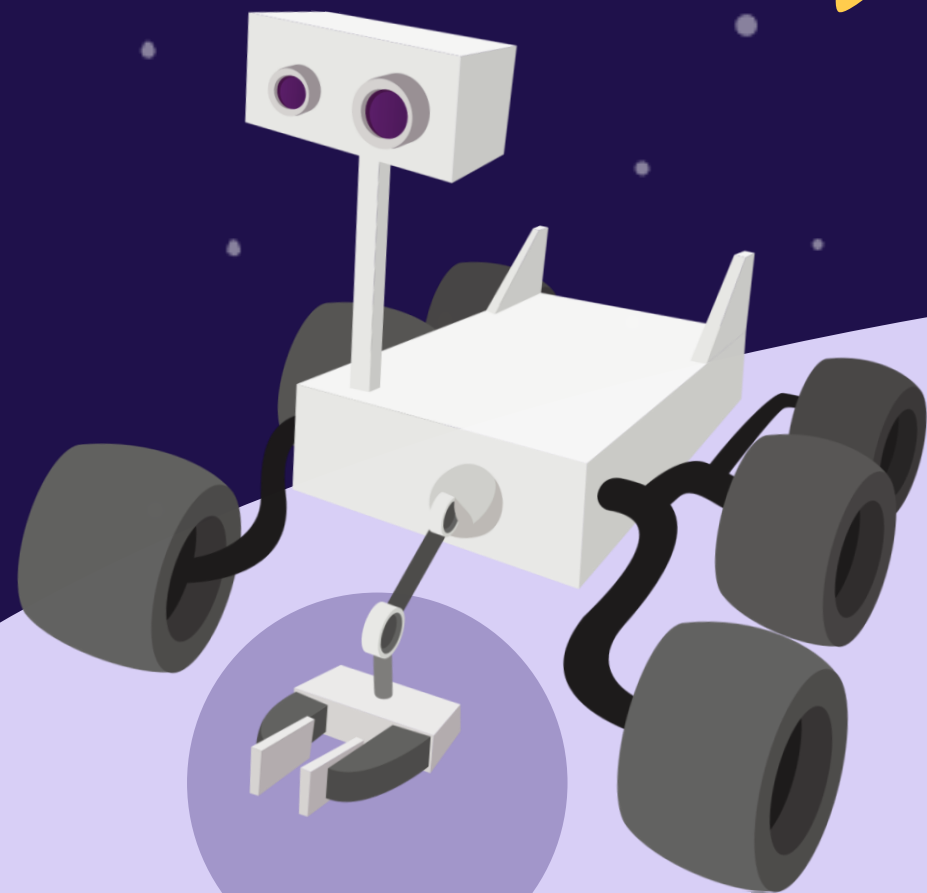


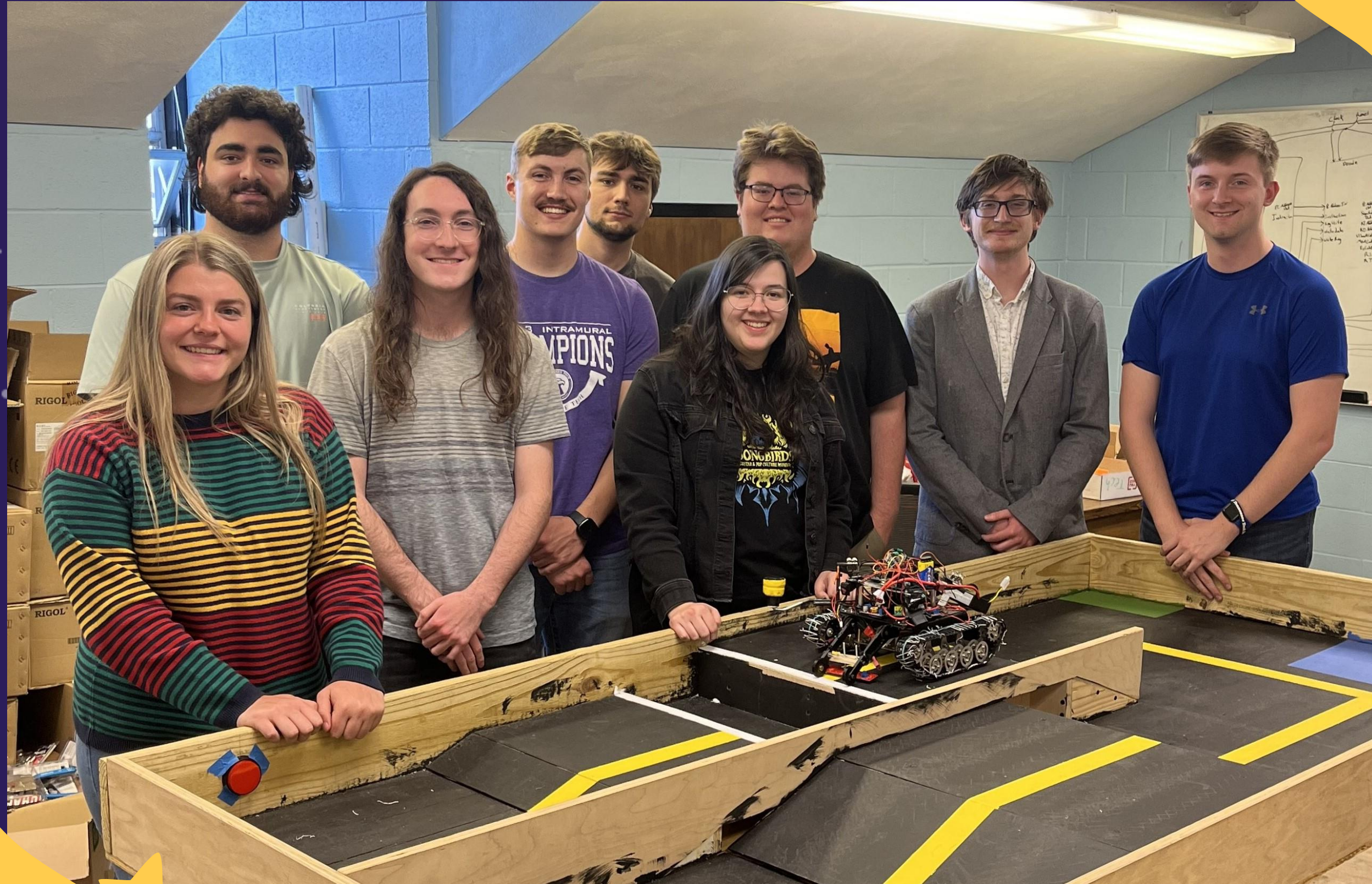
IEEE SECON ROBOT

Team 1:

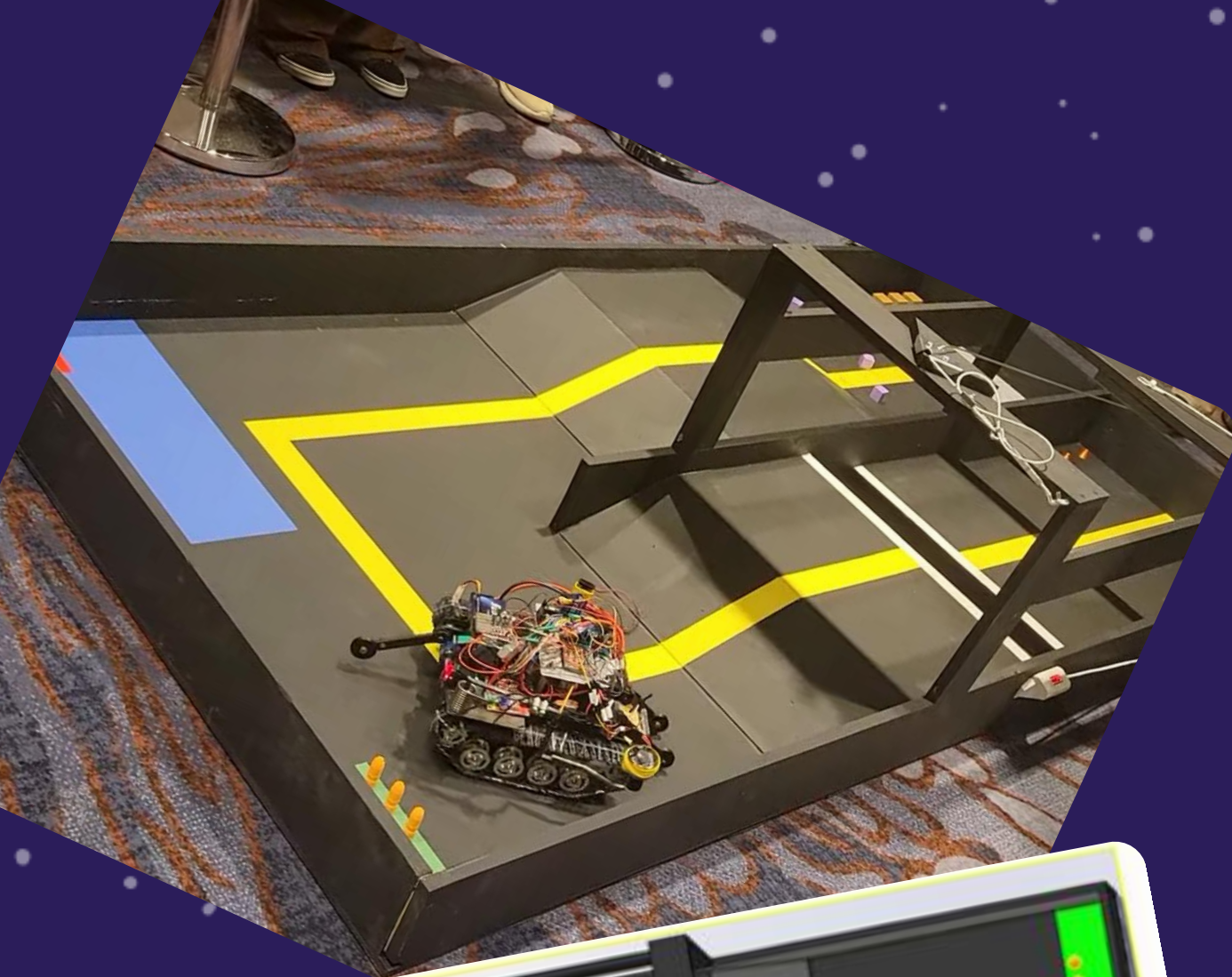
**Callie Battenfield, Caz Bilbrey,
Liam Counasse, Adrin Jackson,
& Conor Orr**



OUR TEAM



THE PROBLEM



Build a Robot!

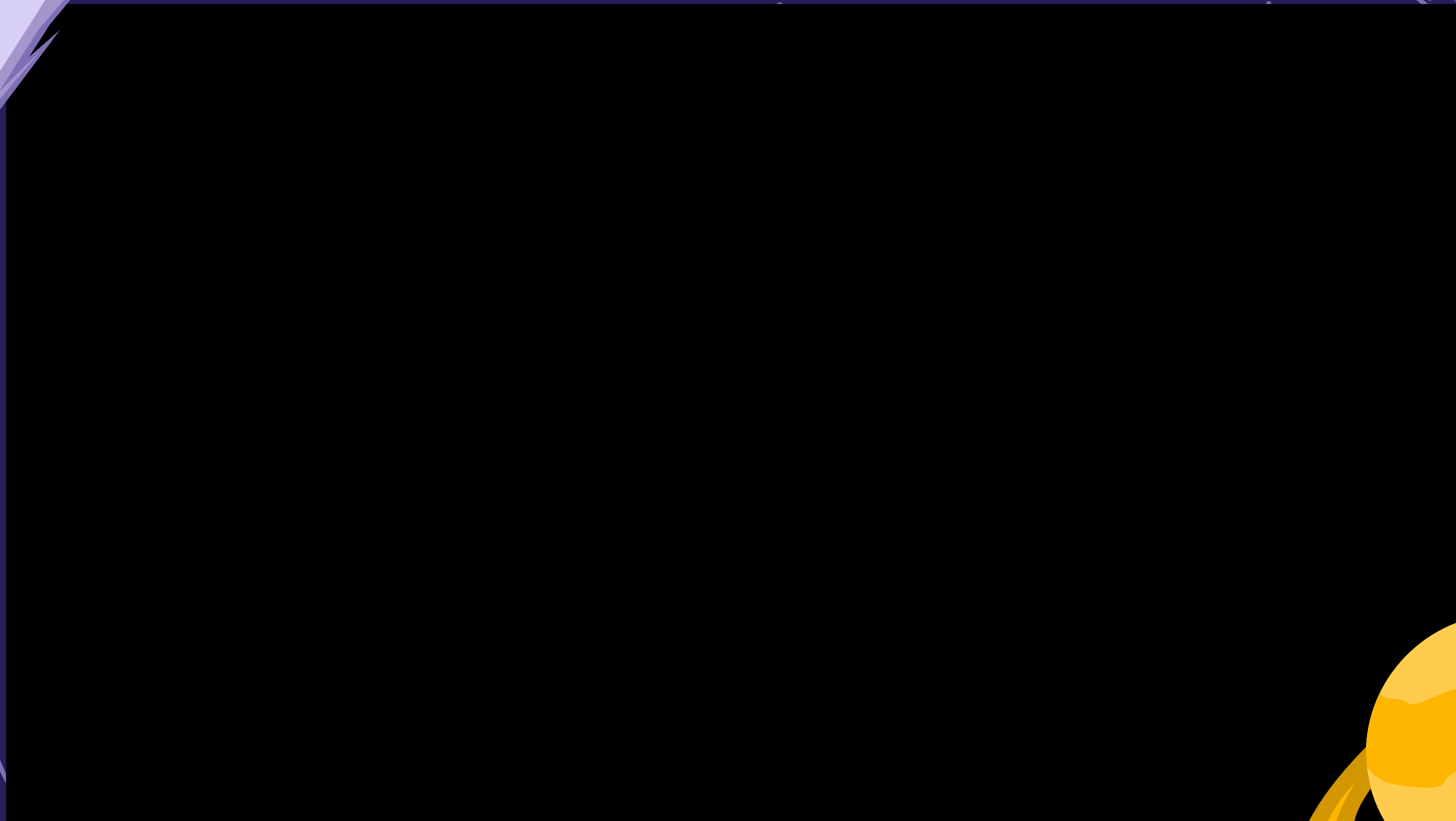
Climb Hills

Cross Craters

Crush Boxes



DEMONSTRATION



STANDARDS & REGULATIONS



Competition Requirements:

- Autonomy
- Weight
- Size
- Safety

Standards and Considerations:

- Economic Impact
- Environmental Impact
- Industry Standards

Push Button

- Deployment time
- Press button

Spirit Display

- Visibility
- Dynamic Display

PROJECT DESIGN

Navigate

- Follow the yellow line
- Sensors distance to line

Self Start

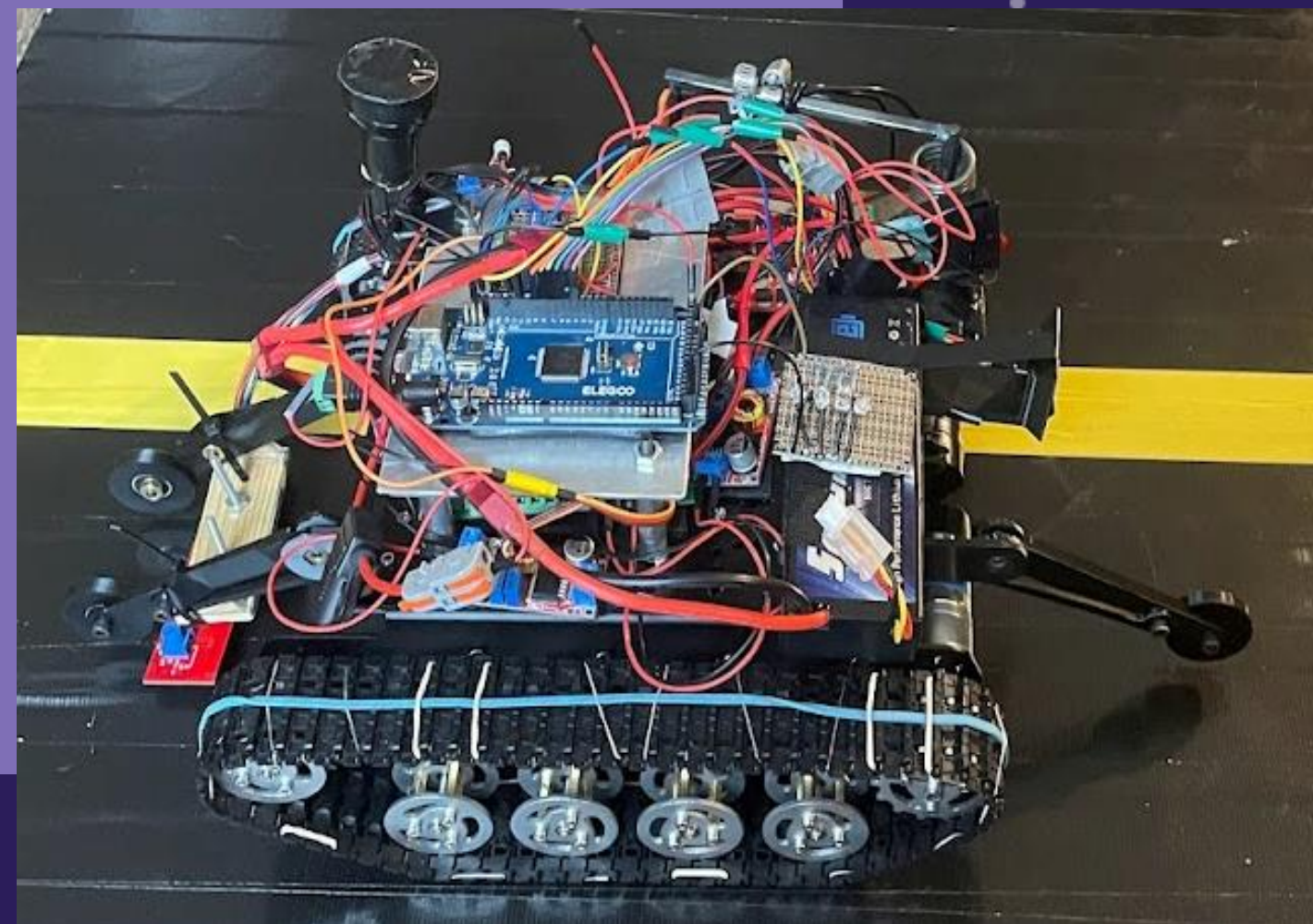
- Detect Green
- Distance to Light

Cross Crater

- Don't get stuck!
- Stay on line

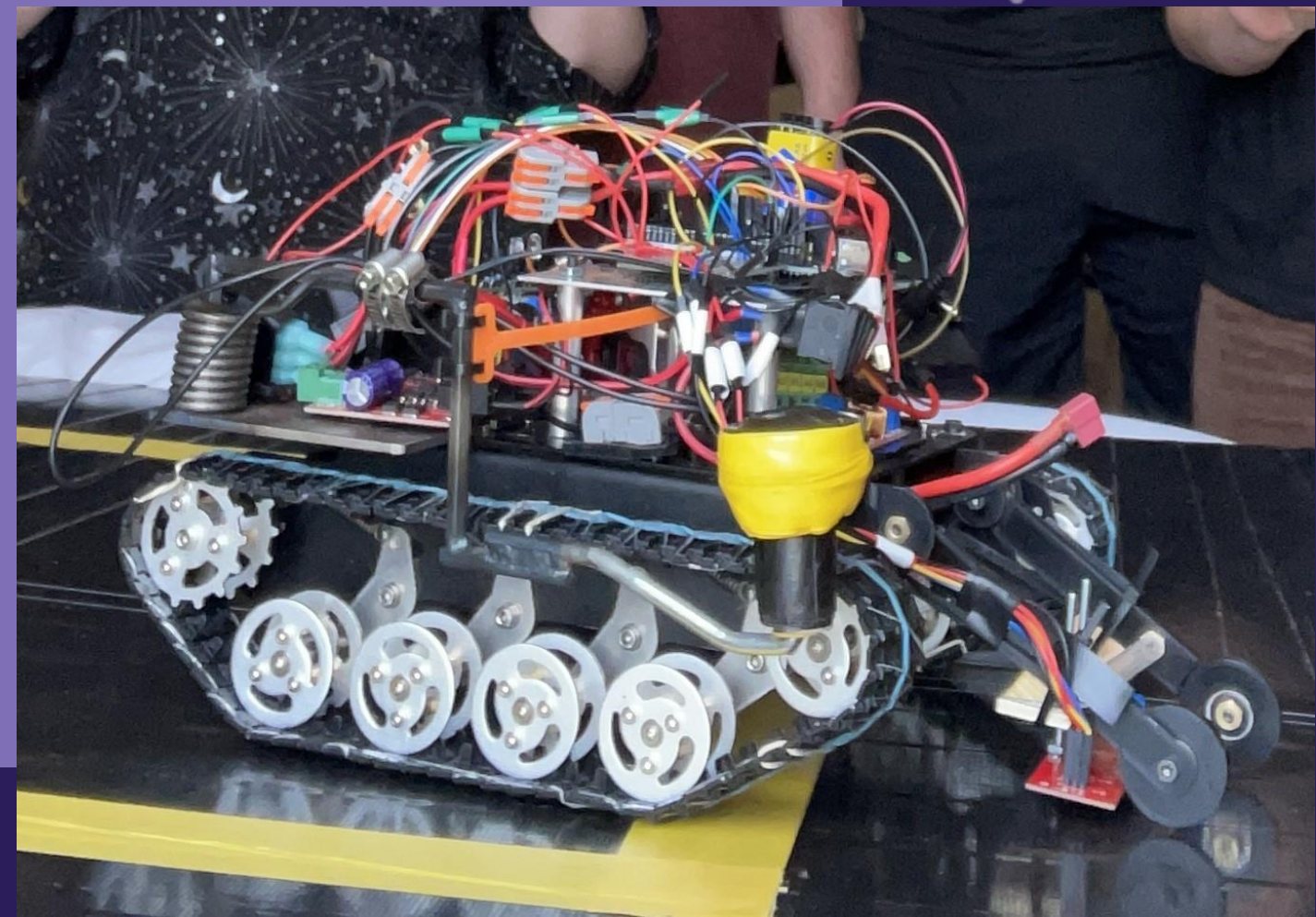
IMPLEMENTATION

- Start Sensor & Shroud
- Weight Distribution & Wheelie Bars
- Sensor Scraping
- Paint roller arm
- Brownouts
- Software
 - Modularity
 - Safety Timers



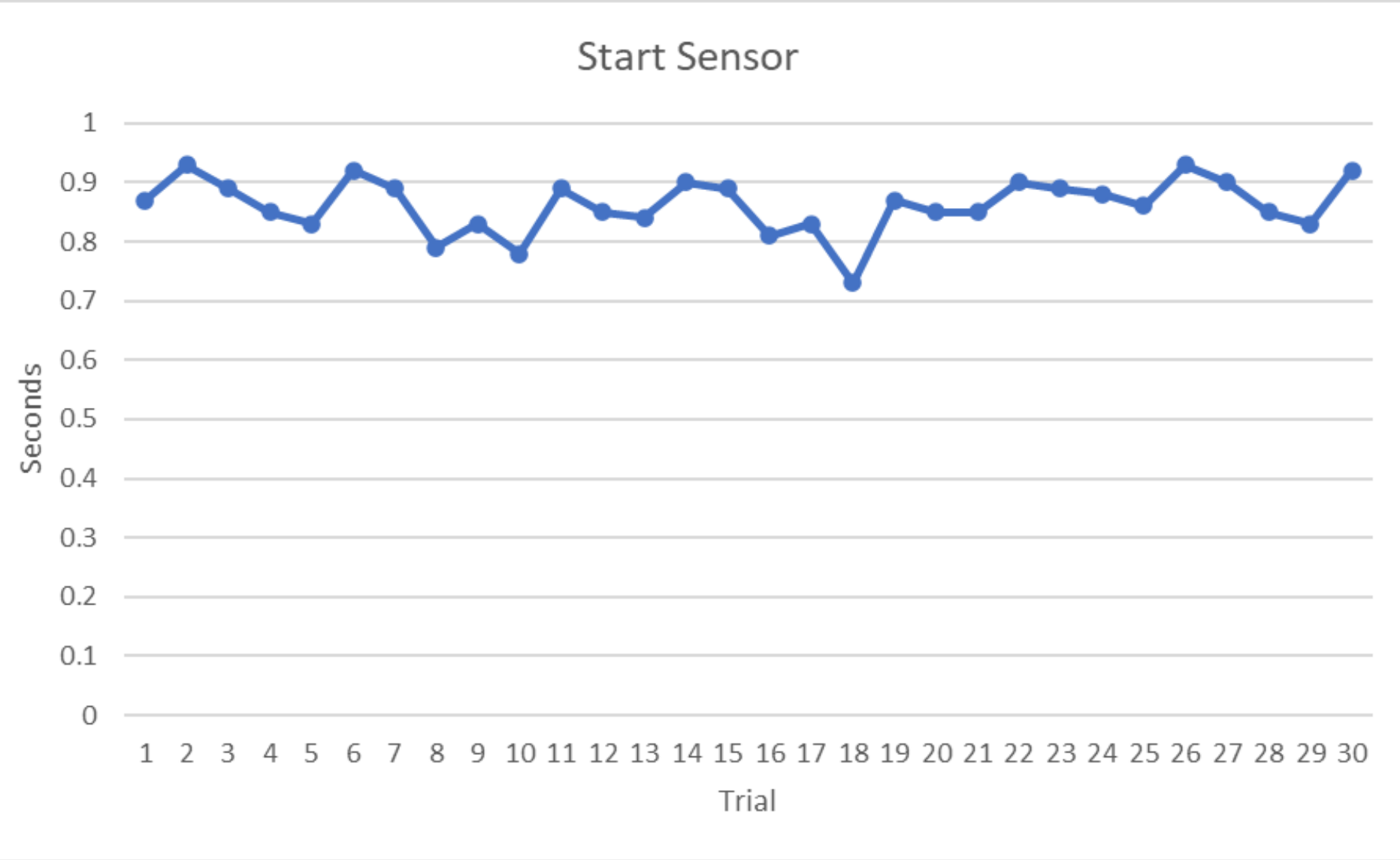
IMPLEMENTATION

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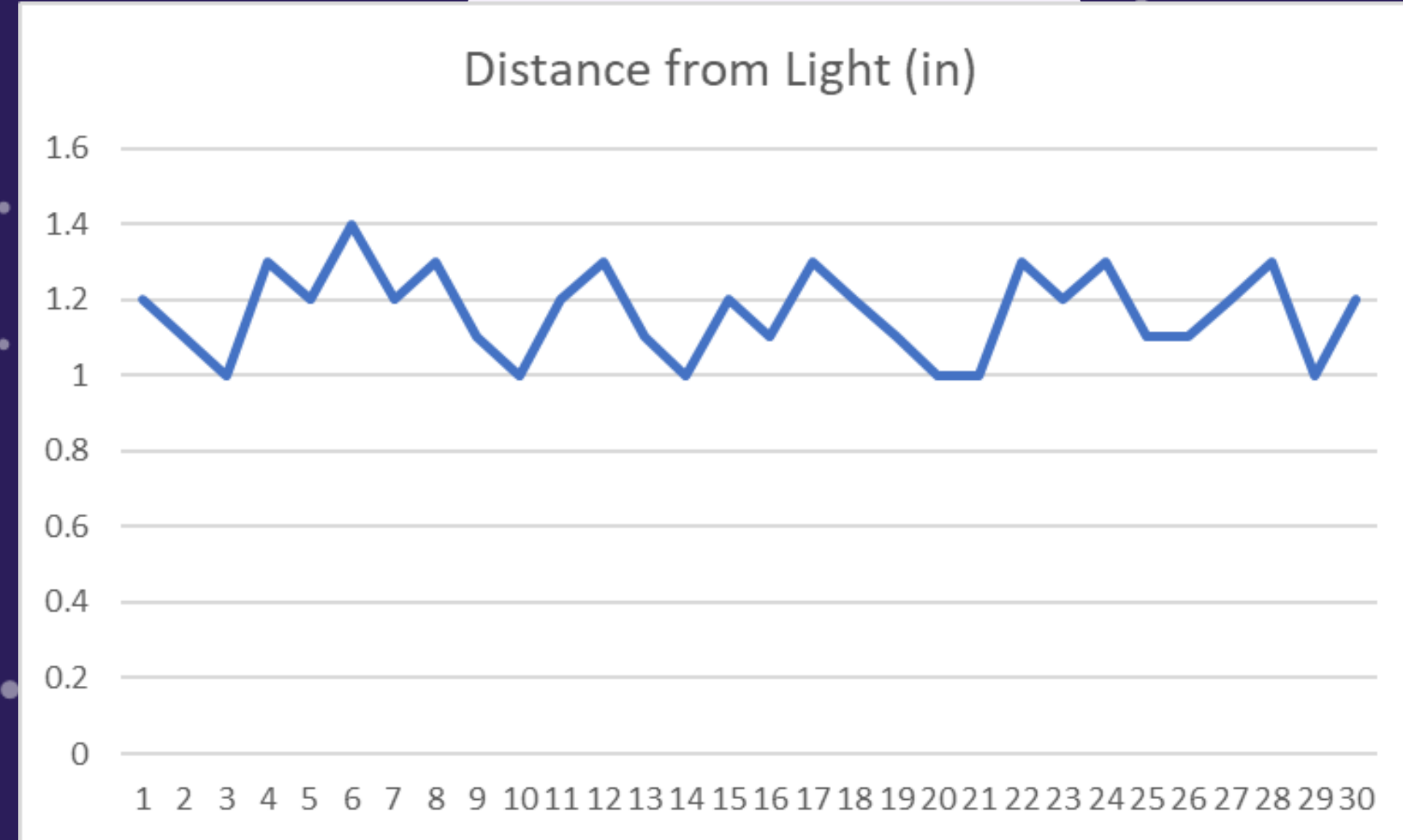


EXPERIMENTATION

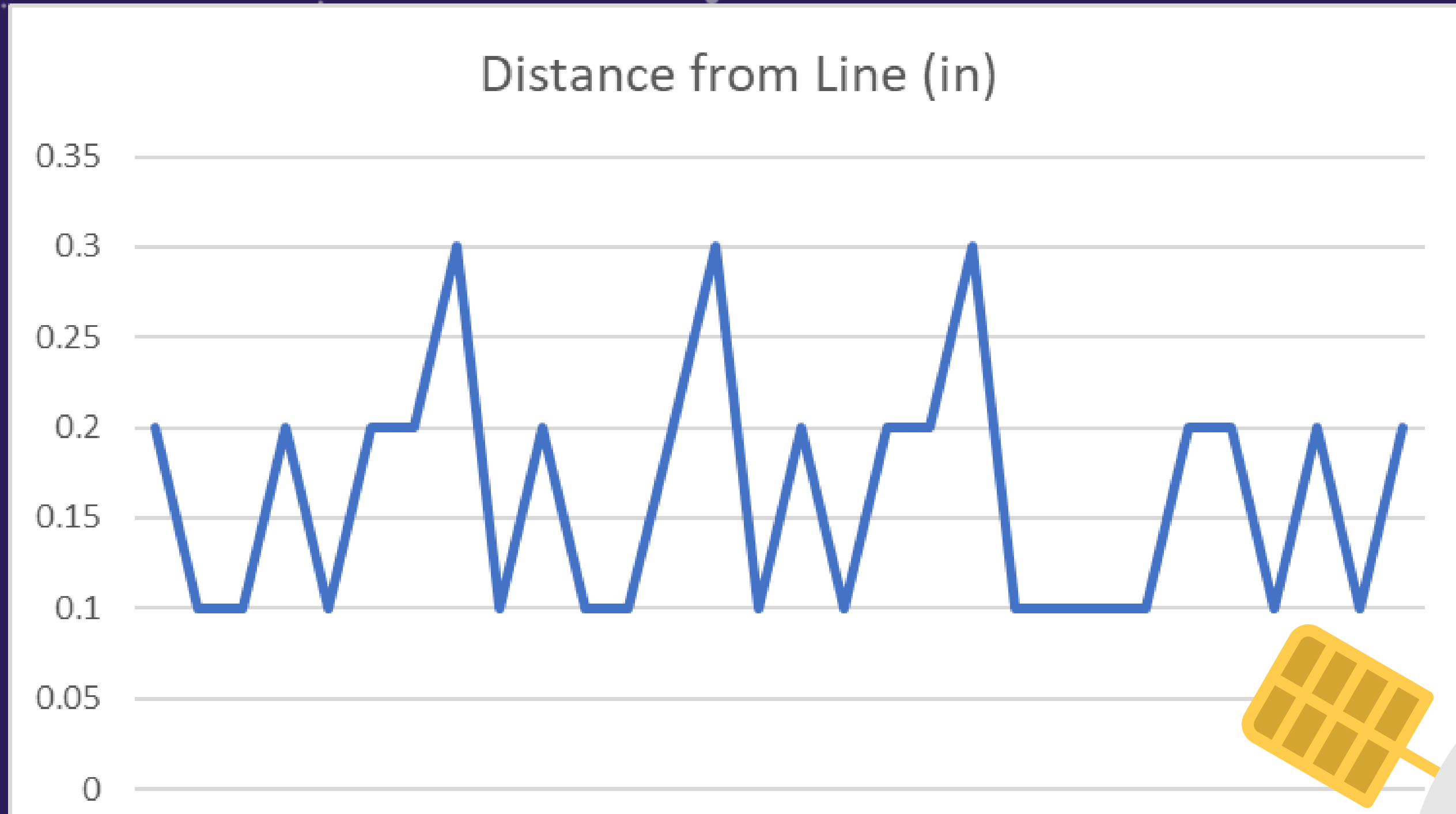




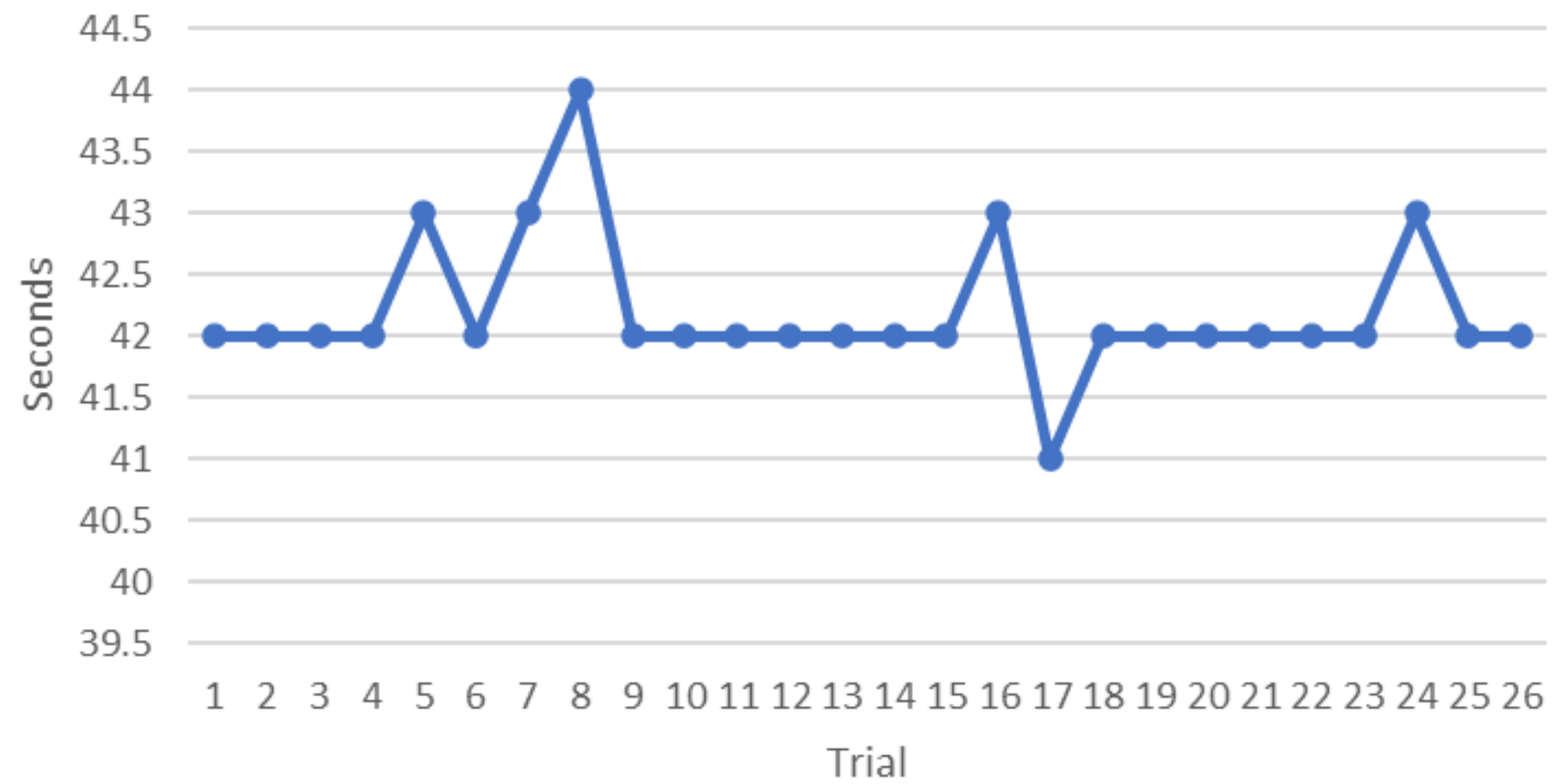
START SENSOR



NAVIGATION

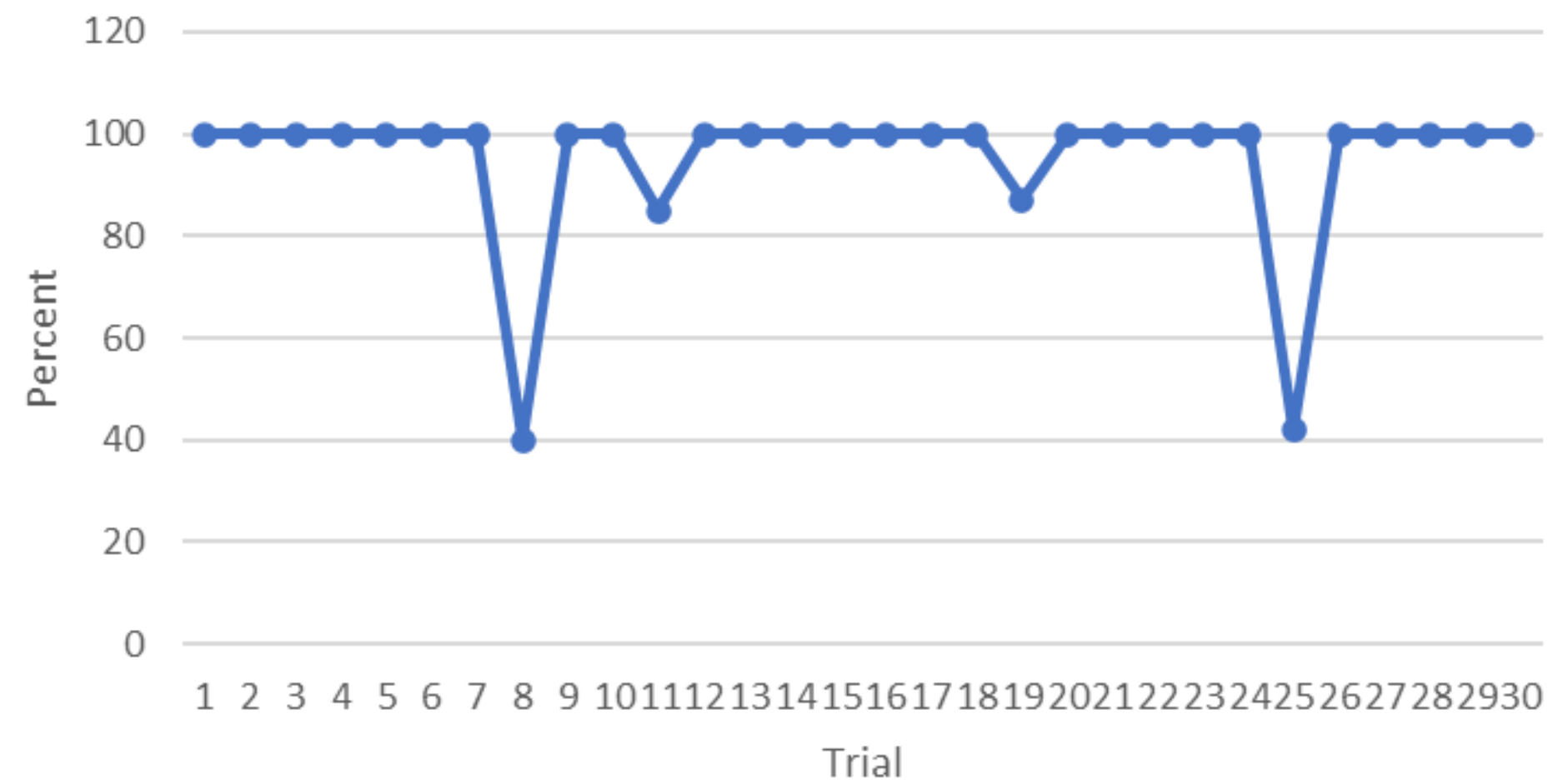


Course Completion Time

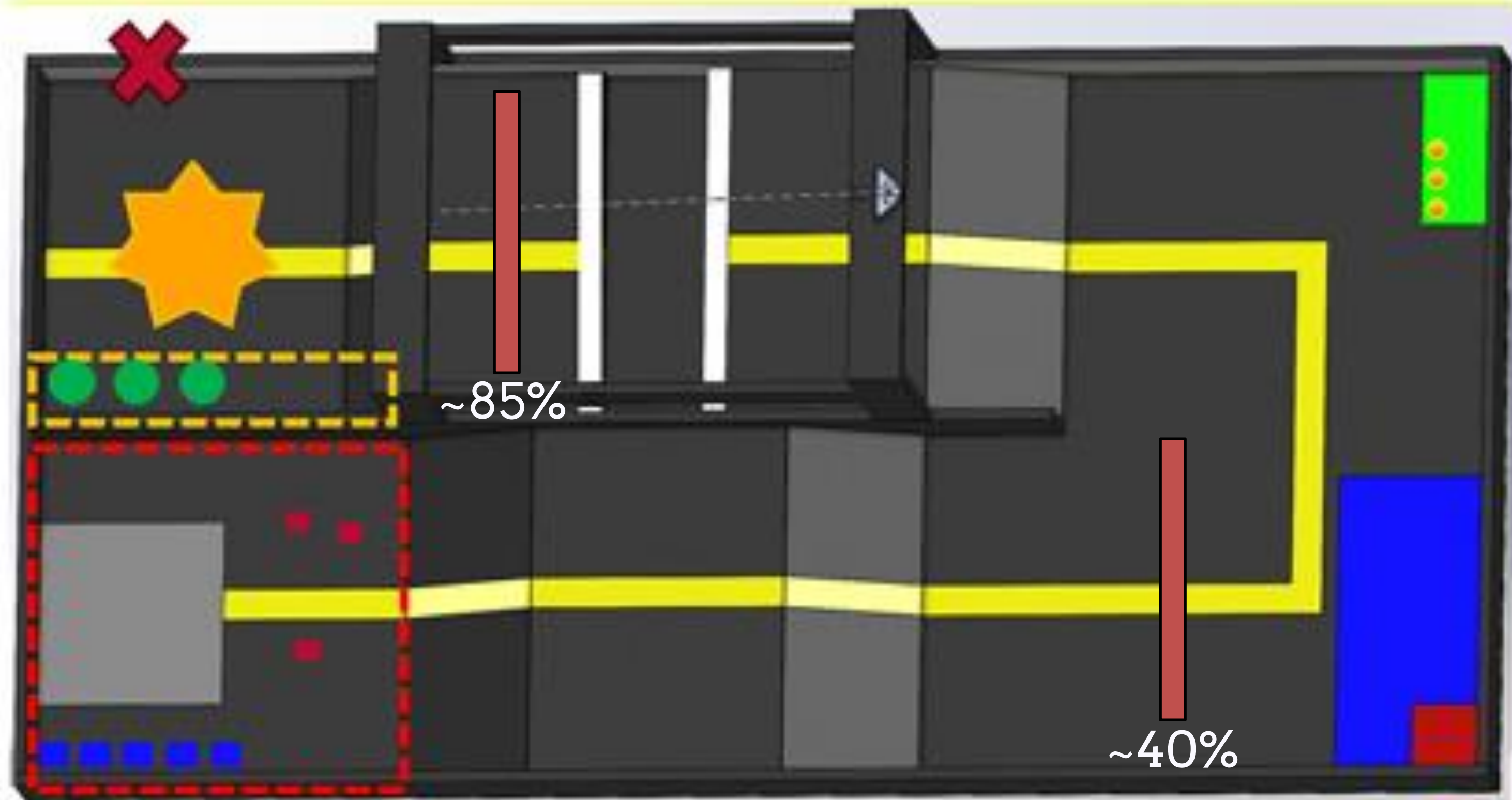


**MAIN
CONTROL**

Course Completion

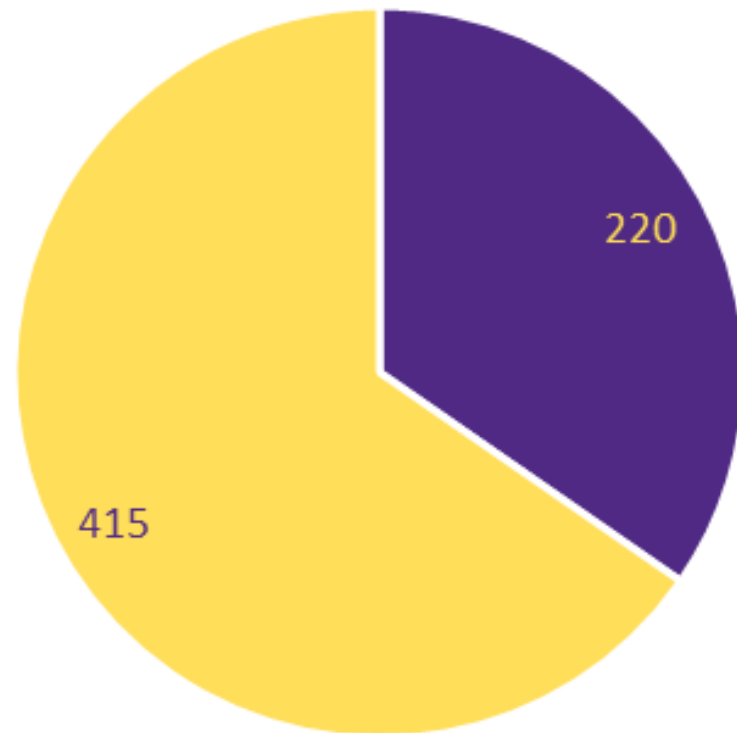


The Course

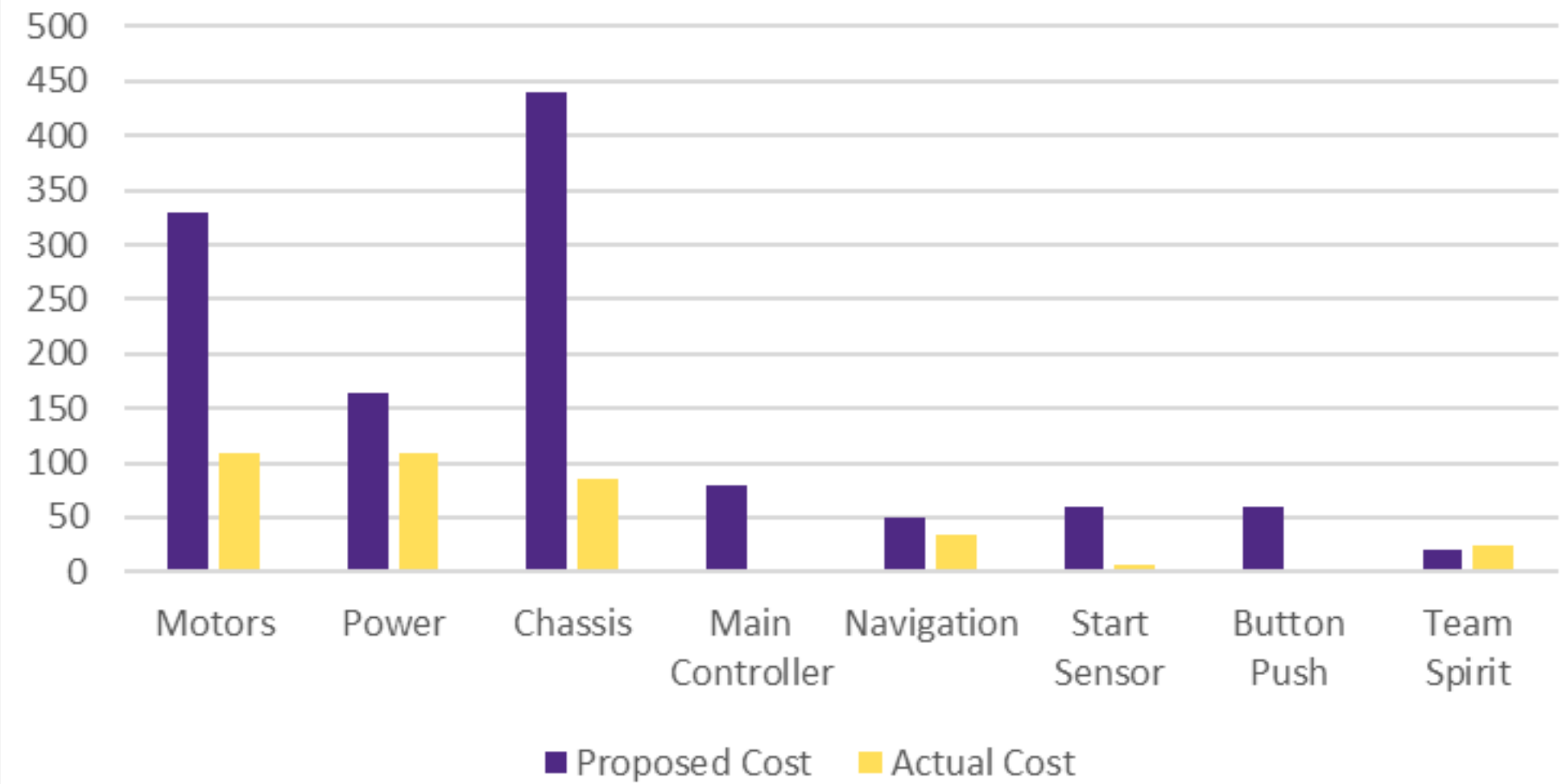


BUDGET

Recycled Materials



Cost Per System





THANK YOU!

Do you have any questions?

