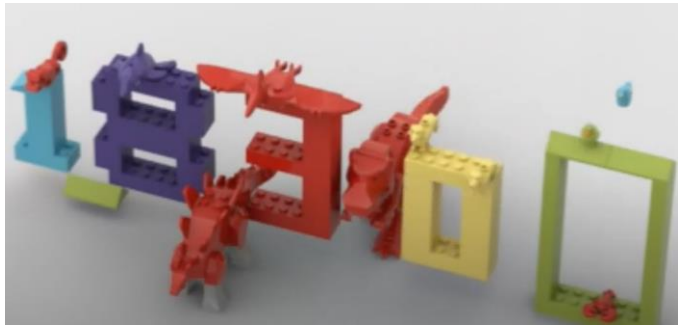
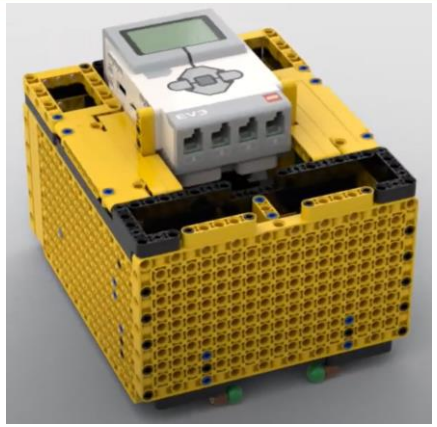




TEAM 18300

https://fll-18300.github.io/home/

What we're doing today...

Research Independently:

- Research Team 1: Write down in a shared google doc; what is JIRA used for?
- Research Team 2: Write down in a shared google doc; what are the steps in the engineering process? Provide at least a 1 sentence description of each step.
- Research Team 3: Write down in a shared google doc; what is github used for?

Research teams, present your findings!

Discuss Together:

- Kyle's Tape Measure Tool
- Gyro Sensor demonstration & discussion

Work Independently:

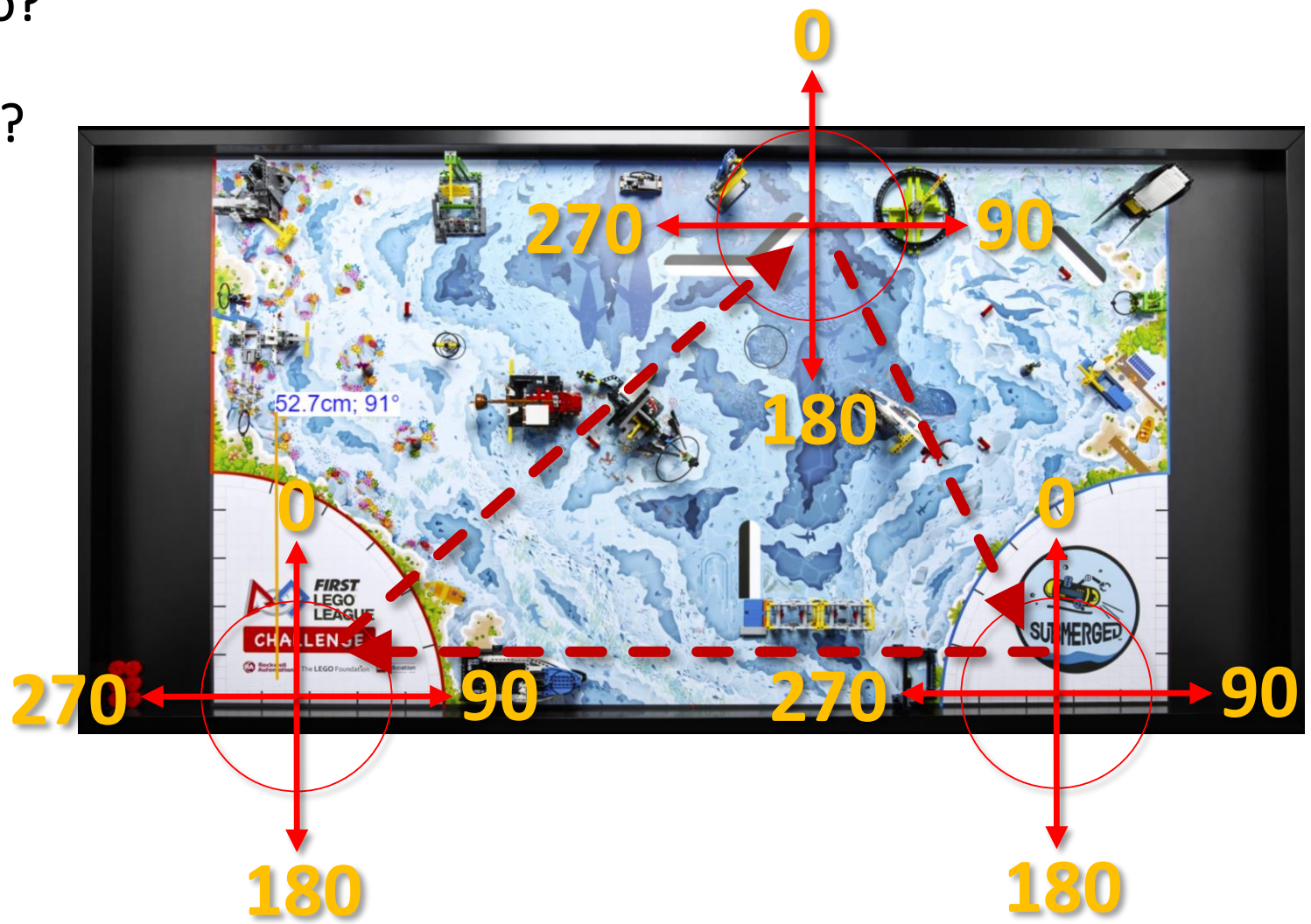
- Possible Basebot modification(s) and improvements
- Work on the mission ranking table
- Mission Strategy and planning – use the sketching tool
- Replace Broken EV3 Brain
- Prototype and program

Gyro Discussion

Think About…

- What is a gyro, what does it do?
- How can we use it?
- What are the problems with it?

Compass Rose



Gyro Drift

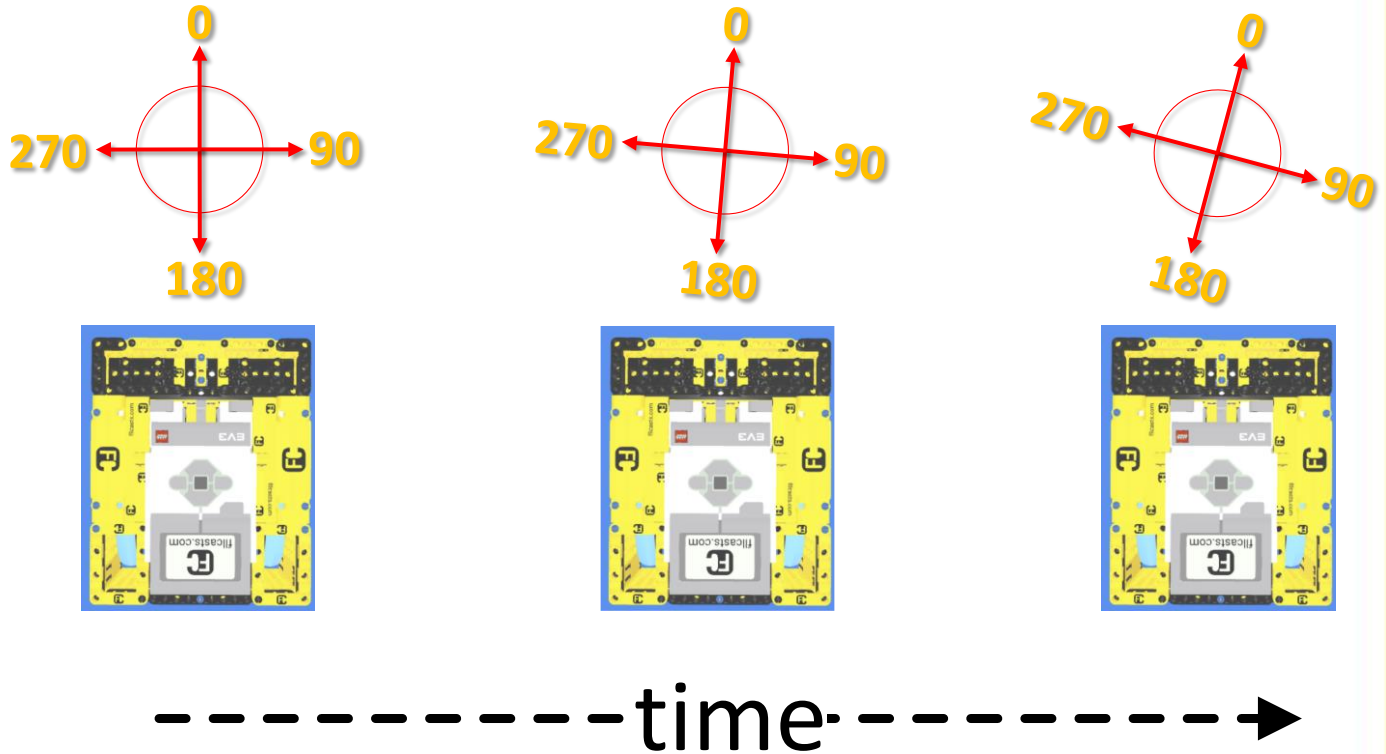
Think About…

- What is gyro drift?
- What problems could gyro drift cause?
- How bad is it really, can we measure it?
- What can we do about it?

- "The gyro auto-calibrates when the robot is turned on or the gyro wire is connected. If the robot is moving during calibration, the gyro "learns" the wrong value for "still" – this causes drift" -*From* [Gyro (ev3lessons.com)]

- We can remove MOST of the drift by resetting the gyro while the robot is very still. This is called calibration.

- Even with calibration, all Gyros are expected to drift over time. Sometimes very slowly, sometimes bit faster.



Prototype!