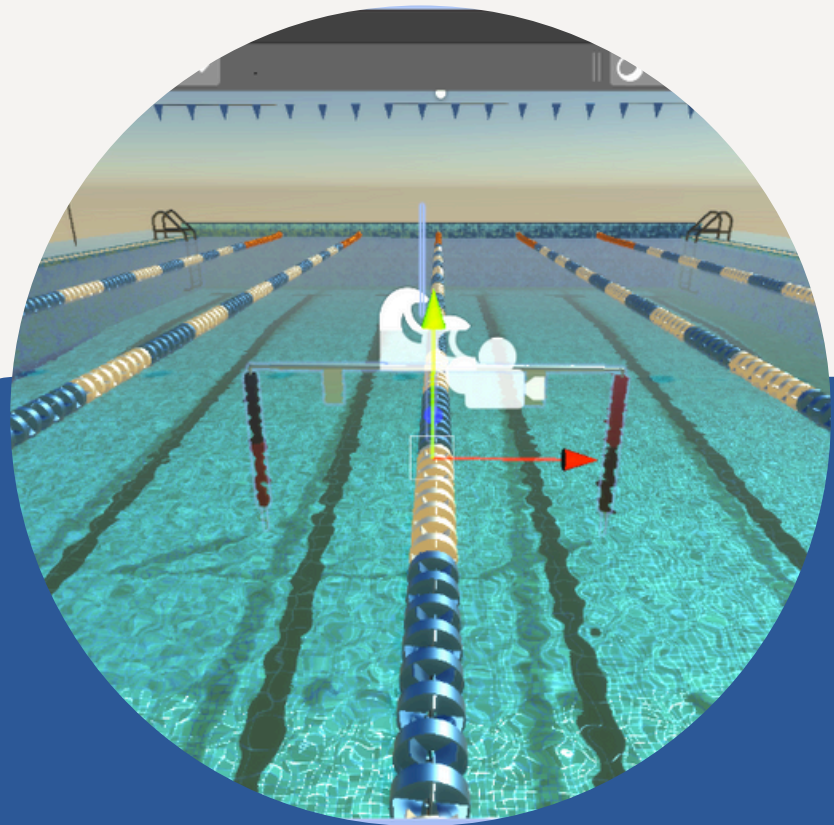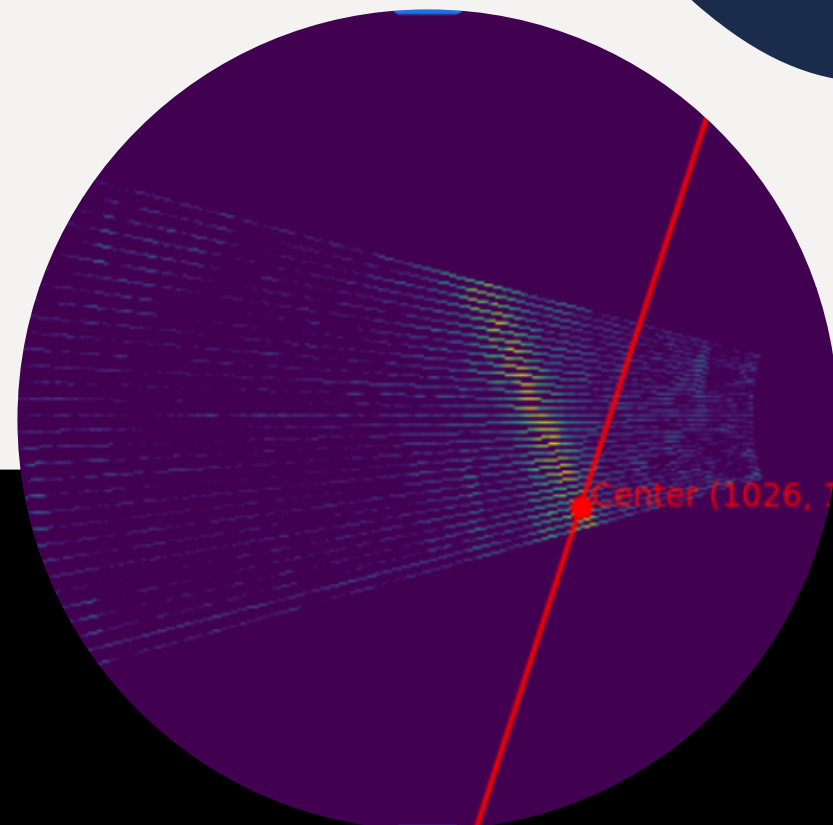# CS TEAM

RECENT DEVELOPMENTS

CV IMPROVEMENTS

Used synthetic image generation in Unity for training data with negligible loss in accuracy, significantly increasing training throughput

SONAR

Utilizing sonar in tandem with cameras for localization and object detection

FUTURE GOALS

1

REVISED CONTROLS

Completely rewrite controls package to enable velocity-based control

2

SENSOR UPDATES

Work to better integrate sensors and systems such as acoustics for additional data points and backup plans

3

IN-HOUSE CV

Develop better CV models using newer hardware and switch away from proprietary vendors to open-source implementations for maintainability and accuracy

4

STATE AND POSITIONING

Work on improved state and include a global positioning system within the pool