Control Award, Sponsored by Arm, Inc. Submission Form

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Team # 15829	Team Name: EHS Hotfix

Autonomous Objectives:
1 Find the Skystone, and move it over to the other side then park the robot onto the tape.

2 Move the foundation into the building zone, then park on the center tape.

Points reposition foundation (10 points) Skystone bringing to the other side (10 points) parking on tape (5 points) 15 points in total.

Sensors Used:
Camera (TensorFlow)

Key algorithms:
Finding Skystones and movement function.

Driver controlled enhancements:
Buttons that can slow down the robot movement. "find Skystone" algorithm, switch between levels of speed for more precise control.

Engineering notebook references:
Autonomous can be found on page 20. "find Skystone" on page 10. speed level switching on page 3.

Autonomous program diagrams: