

Control Award Sponsored by Arm Submission Form

Please turn in this sheet during your judge interview along with your engineering portfolio

Team # 8696 Team Name: Trobotix

Autonomous objectives:

Score a single pre-loaded cone on a medium and/or high junction.

Park in the correct zone based upon the signal cone.

Sensors used:

Encoders (4) - Accurate driving and navigation. Distance Sensors (3) - Supplement encoder readings. Magnetic Limits Switches

Key algorithms:

Finite-State Machine - Control slide positioning without compromising the availability of other mechanisms. An inverse func

Driver controlled enhancements:

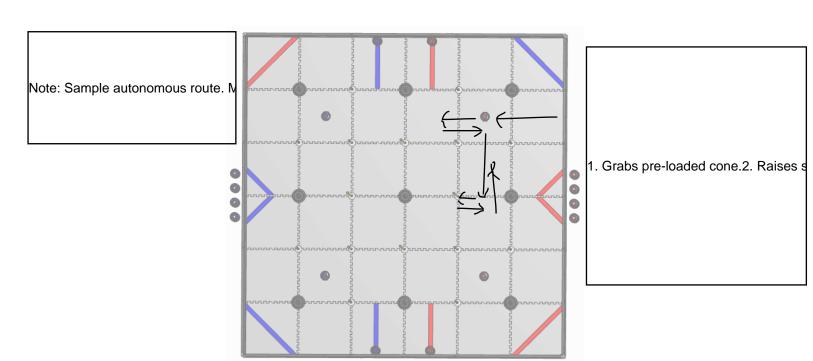
Automatic linear slide positioning using magnetic limit switches.

Squared controller input to provide a more "natural" feel.

Engineering portfolio references:

Design § 4.a - SensorsProgramming § 1 - Autonomous Programming §

Autonomous program diagrams:



Revision 1: 9/12/2022