

COSC 480 – Robotics

Project 3

Purpose: Use non-wheeled locomotion to create a devastating wrasslin' bot.

Task: Construct a sumo wrestling robot. Win at all costs.

Create a robot that will seek out and force an opposing robot out of the ring. Here's the catch, you may not use wheeled or track based locomotion.

- * The ring will be square and 3 feet along each side.
- * The border of the ring will be blue.
- * Each match will have a time limit of 10 minutes.
- * A match win consists of knocking any (still connected) part of your opponent's bot out of the ring or immobilizing your opponent's bot. Ties are allowed.
- * At the start of each match, each bot is oriented in a random direction.
- * If your opponent drives off the edge of the ring, that is considered a win for you.

Your robot will be tested on the battlefield. It will participate in a best-of-three, round-robin tournament to determine the best design. The demonstration may go over two days.

You may use any of the sensors and LEGOs in the kit. That's it.

DUE: March 24th to be demonstrated in class.