

# 2ND ANNUAL CLF SUMOBOT CHALLENGE



## Event Summary:

Two robots compete in a head-to-head match following the basic system of traditional human sumo matches.

Robots are allowed, but no weapons and no robots flipping each other. The sole purpose is a pushing match between the two robots, to force the other from the arena.

All Sumo robots must be constructed of 100% unmodified LEGO parts (no gluing, cutting, melting, other modification, or modified pieces are allowed).

Robots can use one NXT or one EV3 brick, up to four motors, and four sensors.

## Competition Rules:

- The robots will proceed in combat until one unit is disabled, or removed from the ring. A robot is considered to be "removed" from the ring when the drive system falls off the edge, and touches the floor. A robot whose body hangs over the edge is not considered 'off,' until it physically tips off the edge and touches the floor.
- A robot that disables or removes the enemy gets a "Win" credited to it, and if a robot goes outside of the ring by itself, the other robot gets a "Win" credited to it.
- When one robot becomes disabled (flipped on its back or side), and is unable to move, the ring officials will award the victory to the remaining robot.
- If the judge determines that both robots are stuck in entanglement, or deadlock for at least fifteen (15) seconds, the judge will call for a "Reset," and robots will be put back into starting positions.

**Name of Event:** SumoBot Challenge  
**Date and Time:** Saturday, MAR 28<sup>th</sup>, 2020  
@9:30am

**Location:** Chesapeake Science Point  
PCS, 7321 Pkwy Dr. S, Hanover, MD 21076

**Robots per Event:** Two

**Robot Weight:** Up to 3 lb.

**Robot Dimensions:** Must fit within a 1' by 1' square frame

**Arena Specifications:** 42-inch diameter ring. White background, black circle border

**Robot Control:** Autonomous

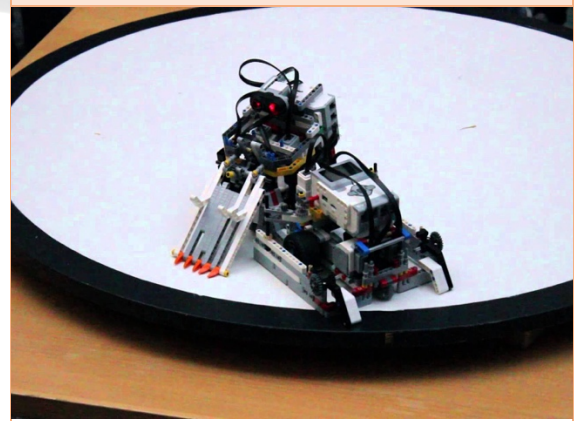
Competition Structure:

**Round Robin: Each robot faces each other robot (one at a time) in a match.**

**Thus, every robot gets a chance to compete against every robot in the group. This method also has the advantage of determining all robots' actual rank, not just a sole winner.**

**Each winner robot gets 1 point in a match.**

**Final Four Finalists: When Round Robin ends, the first four robots advance to the Final Four tour. With a coin toss, robots match-up. Winning robots combat at the final round and WINNER is announced.**



All students receive medal and \$15 gift cards.  
1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place winners receive a special trophy.

Registration at

[www.clfadvancedstudies.org/sumobot](http://www.clfadvancedstudies.org/sumobot)

Deadline: MARCH 13<sup>th</sup>, 2020