



## Robotics Workshop

The day begins with the students separated into teams of three and assigned a robot kit and a computer. The instructor then goes over the basics of robot design and explains to the students their objective: build the best autonomous sumo-wrestling robot. Then using the Lego Mindstorm™ kits, the students work together in groups of three to construct, program, and test their robots. Finally, the students group together around the ring to watch their robots duke it for sumo supremacy. The Robotics workshop is an absolute blast and is an excellent introduction to the growing field of robotics. Come join us for a fun and educational field. May the best robot win!

### Schedule

**8:30 – 9:00 ARRIVAL AND WELCOME**

**9:00 – 9:30 ROBOT PRESENTATION**

- The instructor gives a history of robotics, explains how the sensors on the robot work and shows a short video.

**9:30 – 10:30 BUILDING AND PROGRAMMING THE ROBOT**

**10:30 – 11:00 MODIFYING /REDESIGNING THE ROBOT**

- Using their soft skills, the student groups share their ideas and work together to find innovative ways to redesign their robot in order to beat the competition.

**11:00 – 12:00 ROBOT SUMO COMPETITION AND AWARDS CEREMONY**

- The students pit their creations against one another in the ring. Their goal is to push the other robot out of the ring. The competition will include multiple rounds and culminate in a battle royale between the two strongest robots.

**12:00 – 13:00 PIZZA LUNCH**

**13:00 – 13:30 CLOSING COMMENTS AND DEPARTURE.**

The proposed schedule may be adapted, if required.