

# RoboFest Hawaii 2007 Competition Rules • Aug 31, 2007

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## • Lego Pit Dash

Robots must drive over, under or through a pit of Lego bricks as quickly as possible without going out-of-bounds. Any part of the robot that moves outside of the vertical plane of the retaining walls is disqualified for that run.

### Competition:

Robots must operate autonomously, with no human intervention after being started  
Robots are given three runs (5 min limit each), with retooling or configuration allowed between runs

Lego pit will be open for competition from 10:00 - 1:00

Robots can be no larger than a 12" cube, limited to 3 lbs in weight, with no pneumatics, hydraulics or winches, DC powered and self-contained.

### Competition classes:

- \* Student Class (14 and younger), stock Lego parts only
- \* Open Class (15 and older), using any robotics platform

### Playing field:

18" width by 8' length field with 6" tall walls to enclose various Lego bricks. The pit will be constructed of 6" high x 8' long (x 1 1/4" thick) plexiglass walls mounted on a 4' x 8' sheet of plywood using 1" x 2" wood strips with screws shot into the sides of the plexi and the plywood. 50 pounds of Lego will fill the pit to about 2.5-3" above the bottom, leaving 3-3.5" of wall above the Legos.

### Scoring:

Timed event, with fastest time winning, or furthest progress if none can finish course

Furthest progress is defined by that portion of robot closest to the finish line, and can be no more than 3" from a drive wheel, tread or other locomotive mechanism

Robots start on a 12" square platform before front wall of the pit

Robot must touch the back wall of the pit to finish

Team member may set robot at starting line and activate it, but may not touch the robot until it finishes the course or disqualifies itself by running out-of-bounds

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