



Region 2 Summit Challenge

The Penn State Harrisburg branch of the Institute of Electrical and Electronic Engineers invites you to . . .

Cheer on your favorite robot competitor!

WHEN & WHERE

Saturday,
April 7th 1-5pm
CUB Gymnasium

WHO'S BATTLING

Penn State - Erie
W. Virginia Tech.
Ohio Univ.

For more information contact
Steve Moses at 439-5795 or
sem226@psu.edu

THE RULES

Region 2 Hardware Competition is based on the creative aspect of electrical and computer engineering. This competition emphasizes problem solving and engineering economics. The setting of this competition is designed in the interest of challenging undergraduate engineers to devise a creative, strategic, and economic solution to the problem presented, to not only perform the necessary tasks but to also contend with another competitors in the same arena.

During the competition, two robots from opposing teams go head-to-head in the arena trying to attain the most points as fast as possible. Robots gain points by collecting balls and placing them in their ball depository. There are three different types of balls: Steel (2 points), Brass (20 points) and Thermoplastic (-4 points). The ball depository is a rectangular bin surrounded by boundary walls, located at opposing sides of the arena. A white rectangular grid, which may be used for guidance, is provided on the black surface of the arena. There is also a square pit located in the center of the arena. The steel balls are randomly located at the intersections of the grid, and the single brass ball is located atop a post in the center of the square pit. A map of the steel ball locations will be given out prior to the beginning of each round of the competition so that teams may use them if they wish to program the robots.

The key to winning is strategy. A winning team will not only have to collect the most points, but will also have to account for the opponent on the board.

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