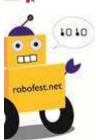
ROBOFEST LJiva

Unknown Mission Challenge

Inaugural Event December 7, 2013

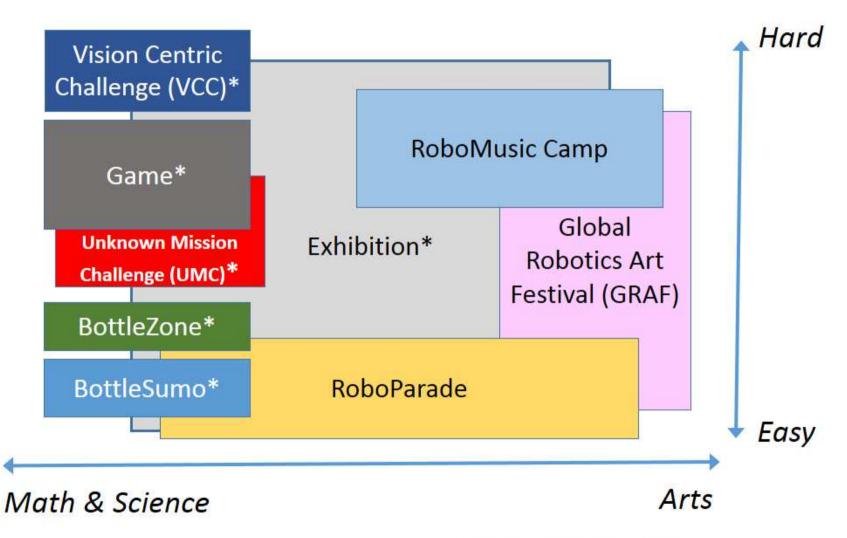


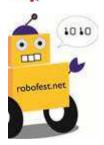
Robofest Overview

- Games: annual robotic missions with math problems
- Exhibition*: Science fair with robotics projects
- VCC (Vision Centric Challenge) obstacle course
- UMC (Completely Unknown Mission Challenge)
- BottleSumo: push a bottle or the opponent off the table
- BottleZone: find the bottle and occupy the zone
- RoboParade*: parade of autonomous robot floats
- GRAF* (Global Robotics Art Festival)
 - Summer RoboMusic Camp*



Robofest is for everyone!

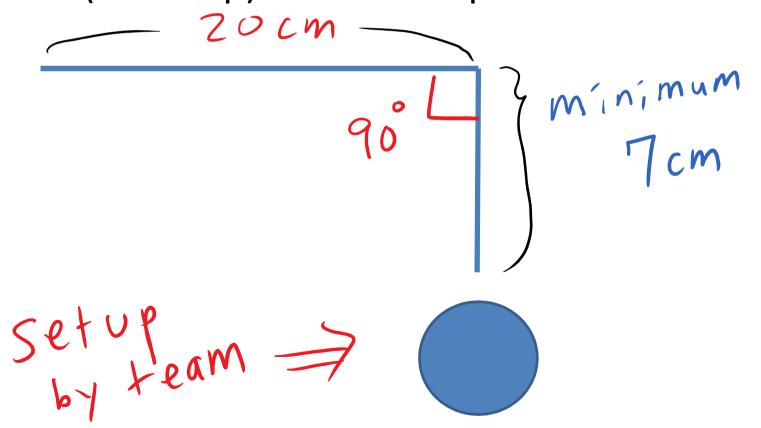


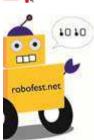


(*) Offered in spring 2014

UMC Today – Draw a Right Angle

Design a robot to hold a pen to draw a straight line (20cm), turn (spin) 90 degrees, and draw a straight line (and stop) till the bumper is hit.





How to grade

20 cm line

– Length:	40%

- Straightness (0^3) : 3%

Angle

Accuracy of the degree:	45%
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- Angle quality (0^3) :

• Line 2 minimum 7cm? 3%

Overall line quality (0~3):

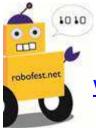
Bumper (whether it stopped or not): 3%

How to decide winners

- Teams will have 2 "official" runs that will be judged BEFORE 11:30 AM
- The first run must be done by 11:00 AM
- Winners will be decided by best score of the 2 official runs.
- Tie breaker will be the time of the best run









What's Next

- IRO (International Robot Olympiad)
- NAC
- WC



Thank you!

