What is National Robotics Week?

- A product of a 2009 effort by leading universities and companies to create a “national road-map” for robotics technology.
- Will be held April 9 – 17 for this year
- Every event happens everywhere simultaneously. (Nationally!)
- Open to everyone. Even possible to hold your own event.
- 2(or 3) years of short history, but..
  - + 50 events,
  - + 20 states,
  - + 46,000 people(24,000 K-12 students) in 2010!
What is National Robotics Week?
Why National Robotics Week?

- US is falling behind on number of college grads in STEM (Science, Technology, Engineering and Math) field
- Need 400,000 new STEM grads by 2015

2.5 million graduating HS seniors each year

35,000 enter college and receive a STEM degree in 6 years

- Why don't we use robots to inspire students?

Cited from Kristen N. Stubbs. 2011. Google Tech Talk. How robots are taking over the world (of education)
Why National Robotics Week?

- Robots have innovative tactics (1/3):
  - Platforms:

Cited from Kristen N. Stubbs. 2011. Google Tech Talk. How robots are taking over the world (of education)
Why National Robotics Week?

- Robots have innovative tactics (2/3):
  - Competitions:

Cited from Kristen N. Stubbs. 2011. Google Tech Talk. How robots are taking over the world (of education)
Why National Robotics Week?

- Robots have innovative tactics (3/3):
  - Curricula:
    - Easy to apply, easy to get involved.
    - Quality interactions and tangible results.
    - KBotics, Queen's University, ON, Canada
Why National Robotics Week?

- National Robotics Week got all the types.
- A wide variety of events:
  - Robot Contest
  - Exhibition
  - Competition
  - Workshop
  - International Conference
  - ...Even 7% off promotional coupon for a shop!
What could we expect?

- To learn problem solving techniques in scientific ways
- Inspiration and positive feedback for STEM field

Cited from student opinion survey from 2008 Global Conference on Educational Robotics, Botball.org
Useful Links:

- SPARK (Starter Programs for the Advancement of Robotics Knowledge)
  - http://spark.irobot.com/

- Video Clip of Google Tech Talk by Kristen N. Stubbs, “How Robots are Taking over the World (of Education)
  - http://www.youtube.com/watch?v=Z6sx1uqxWIM