

## Summary of 2010's SPIRIT Robotics Showcase:

- ✓ The SPIRIT Robotics Showcase is featured as part of the newly created Nebraska Robotics Expo which also includes the First LEGO League Competition
- ✓ Over 220 students from grades K-12 attended the our Showcase event on Saturday, January 30<sup>th</sup>, 2010 at the Strategic Air and Space Museum in Ashland, NE along with teachers and many parents
- ✓ 18 schools participated in this second annual event
- ✓ Sponsors included NSF, OPPD, Lockheed Martin, Cox Communications, Union Pacific and NASA Space Grant
- ✓ Presentations and demonstrations were conducted by Lockheed Martin, Cox, UNMC, CEENBoT, INC, and Central Community College and proved to be a great success and very popular with students, teachers and parents



Nebraska Governor Dave Heineman gives the opening talk



UNMC Surgical Robotics Demonstration fascinates students

- ✓ News coverage by Omaha World Herald and many Lincoln news outlets
- ✓ IEEE student organization contributed to building road courses and manning the food booth
- ✓ All students received t-shirts and HEXBUGs
- ✓ All participating schools received CEENBoTs, thus infusing their classrooms with new materials related to engineering with the continuing promise of exposure to more K-12 aged students
- ✓ An audience poll resulted in ALL students responding with excitement and enthusiasm about engineering
- ✓ CEEN freshman seminar students served as judges and guides providing them with a service learning experience
- ✓ All the events were well synchronized and went off without a single hitch thanks to our organizer, Rita Corell

## Plans for next year:

- Due to the success of the previous two years, planning has begun for 2011
- Feature new events and more activities as the CEENBoT develops (e.g., programming and use of TI Graphic Calculators for motion control and a functional API)
- Include new robotics learning stations for hands-on instruction and student discovery
- Additional schools will be added to the Showcase to expose greater numbers of students to the promise of engineering as a career destination
- Increase the number of corporations providing presentations on their technology as an outreach to the community
- Continue the infusion of engineering tools into more classrooms until there is a continuity of exposure throughout the K-12 period
- Utilize the Showcase as an opportunity for teachers to share their classroom materials related to engineering with one another and to interact with industry sponsors to enhance their understanding of engineering design and philosophy

## SPIRIT Robotics Showcase 2010 Photos

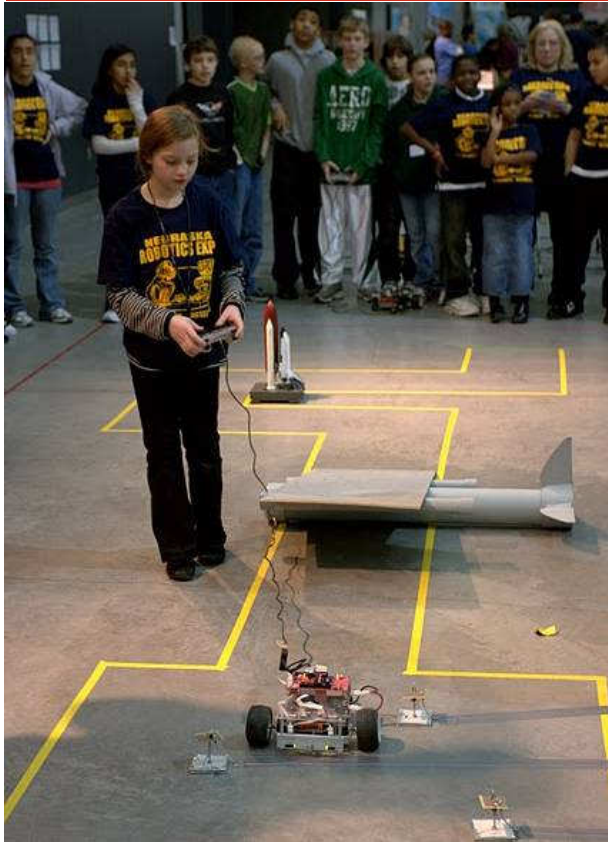


Student team drives their TekBot® through the Ball Arena.



Students take turns with Jason Harper's "Mars Volta" remote controlled riding robot.

## SPIRIT Robotics Showcase 2010 Photos



Student navigates her team's CEENBoT through the Road Course electronic "minefield" (left). Artist Dan Wondra was on hand to do caricature sketches of participants (right).



Pamela Galus and students from Lothrop Elementary with Gov. Dave Heineman

## SPIRIT Robotics Showcase 2009 Photos



An all-girls middle-school TekBot® team pushes to score in the final seconds.



The Tera Heights all-girls TekBot® team navigates the road-obstacle course.

## SPIRIT Robotics Showcase 2009 Photos



Many middle/high school students, teachers, and parents attended this Saturday event.



The Benson High School CEENBot™ team pilots the ball maze wirelessly.