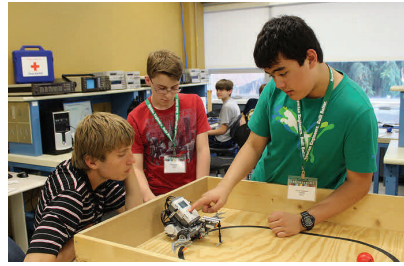


Spartan Engineering for Teens

June 10-14, 2013



Audience

Teens was attended by twelve 8th-9th graders from Lansing and surrounding areas.

Funding

Participant pay a Fee \$300 that covers the educational activities.

Objectives

- Teach future engineers to be leaders in this interdisciplinary field.
- Learn about engineering through hands-on experiments.
- Identify, formulate and solve engineering problems.
- Apply STEM (Science, Technology, Engineering and Math) knowledge to solve problems.
- Use microsensors and robots while learning science, engineering and math.
- Build teamwork skills.

Description

This commuter program is dedicated to teaching future engineers and scientists the skills to be leaders in this exciting interdisciplinary field. Students in the program will use microsensors and robots while learning science, engineering, and mathematics. Working with science teachers and engineering faculty, students will design and build experiments. Students will learn about various engineering majors, be involved in short courses, demonstrations, field trips and hands-on experiments.

Outcomes

- The participants were exposed to nine different fields of engineering, including mechanical, chemical, bio-systems, computer, electrical and civil engineering.
- The hands-on sessions were the highlight of the program and each engineering session included this type of activity.
- The field of robotics was introduced to students using the NXT Robotics system and team based competitions.
- Students also learned about the Core Residential program and how this immersive option helps students become better engineers.

Additional Significant Information

Teens as well as other engineering summer program are taught by the professors of the College of Engineering and their graduate and undergraduate students.

Contact Information

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