Spartaneering LEGO Robotics - Commuter 6/10-14, 6/17-21

Audience
48 students in the 4th through 8th grade.

Funding
The fee of $275 includes use of an NXT LEGO Mindstorms Robot and the computer and programs to build and program.

Objectives
Students have fun while learning to build with LEGO and programming with NXTG programming language.
Build teamwork and communication skills
Develop problem solving skills
Learn about Robots and what they do

Apply STEM (Science, Technology, Engineering and Math) knowledge to solve problems

Description
Designed for students to explore various engineering fields, focus on problem identification, team-building, communication, problem-solving, programming and competition using the NXT Robotics Invention System.

Outcomes
All students build a LEGO Mindstorms NXT Tribot. Students learn to program the robot to move, and respond to 4 sensors (Light, Touch, Sound & Ultrasonic). Once they have mastered the basics, they are given the challenge to revise their robot to solve challenges from the 2012 First LEGO League.

• Engineering concepts of problem solving
• Learning to work in teams.
• Development of problem solving skills.

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