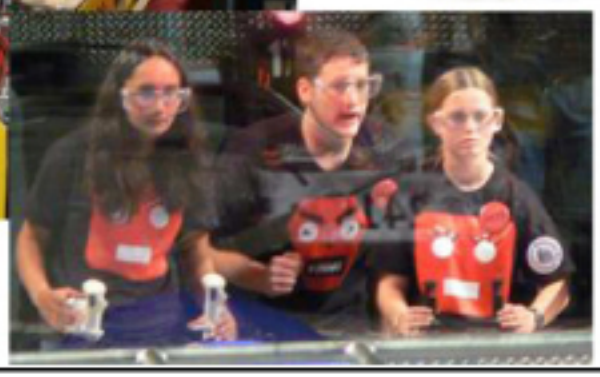
FIRST OVERDRIVE

2008 FIRST ROBOTICS COMPETITION

The Foothill Flyer



JPL

THE HOME DEPOT

SPARTAN BOOSTERS

LA CAÑADA UNIFIED SCHOOL DISTRICT ESTABLISHED 1885

BWA Mortgage

Success Starts Here

ROP

Angel's Nest

Domino's Pizza

Plans to Mentor an FLL Team

Mentoring an FLL Team at La Canada Elementary School

Purpose: To create awareness of science, technology, and First in local elementary schools. Additionally, to spread the word of gracious professionalism.

Overview:
Through bringing robotics to an elementary school level we want to raise the awareness of FIRST from a young age. These students will learn key behaviors which they will need in all professions. They will learn about gracious professionalism, courage, over coming obstacles, and solving real life problems. This group will meet about two times a week for two hours. Every meeting the students will work on the robot and learn about different aspects of technology and science.

Plan:

- We plan to create awareness of robotics, engineering, and science at a young age through starting an FLL Team at a local elementary school, La Canada Elementary School.
- We will not only provide the new Rookie Team with most of the resources needed, but we will also help by mentoring the students, creating a fun learning environment, and attending a real tournament.
- Some roles that will be covered by our own team members will be:
    - A programming mentor who will teach the children the concept of code and who will assist them in creating the code for their autonomous working robot.
    - A general volunteer who will schedule the meetings, assist in organizing all the volunteers from our team and other mentors.
    - A design assistant who will make suggestions from real world solutions to the problem given.
    - A publicity/fundraising volunteer who will help the team with fundraisers, their T-Shirts, and creating awareness of the team in other local elementary schools.

- Approximately 10 elementary school students will not only learn about the different aspects of the technology and science around them, but we will also teach them gracious professionalism, the art of competing with passion while respecting the community and others around you.
- Some other things that they will learn are how to work in an organized team, how to solve and overcome obstacles, and how important it is to solve real world problems.
- We plan on meeting two times a week for about two hours for hands on experience, passion, fun, curiosity, and team work.

At the end of their rookie year, we hope the children have developed new interests, talents, and skills.

FLL: AT-A-GLANCE

power puzzle

FIRST LEGO® League 2007

10th season (including pilot)
Theme: Power Puzzle
106,000 children worldwide
10,607 teams projected

Sponsorship

Founding Partner: The LEGO Group
Over 200 program sponsors
45 university/college partnerships

U.S. & Canada

Impact:
66,070 children
6,607 teams
18% growth from 2006 to 2007

Events:
Over 250 qualifying events
62 Championship tournaments
1 World Festival

Team Demographics:
Ages: 9-14
70% boys
30% girls
Average team size: 10

Outside U.S. & Canada

Impact:
40,000 children
4,000 teams from 36 countries:
Australia, Austria, Brazil, Chile, China, Czech Republic, Denmark, Egypt, Faroe Islands, France, Germany, Greenland, Hong Kong, Hungary, Iceland, India, Israel, Japan, Jordan, South Korea, Lithuania, Mexico, The Netherlands, Norway, Peru, Portugal, Saudi Arabia, Singapore, Slovakia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, United Kingdom

Events:
120 qualifying events expected
25 Championship tournaments expected

Team Demographics:
Ages: 10-16

2007 Junior *FIRST* LEGO® League (JFLL)

U.S. & Canada
5,000 children, ages 6-9, projected
1,000 teams projected
39 JFLL Expos
Average team size: 5
Condensed version of FLL Power Puzzle Challenge

KIT FACTS

Robot Set contains over 1,100 parts including LEGO MINDSTORMS® set and additional motors, sensors and gears.

Field Set Up Kit contains field mat and exclusive collection of LEGO elements required to build mission models.

For more information
800-871-8326 ▪ 603-666-3906
usfirst.org ▪ firstlegoleague.org

> **I want to build things nobody else has even thought of yet.**
>
> **Charles Peterson,**
> *FLL team member (10 years old)*

> **It's the most unbelievable thing you've seen, people yelling and cheering for the robots. This is as much action as you'll see at any sports event.**
>
> **Tim Jump,**
> *Director, Advanced Competitive Science Program, Benilde-St. Margaret's School*

FLL: HOW IT WORKS

FIRST LEGO® League (FLL), created through a partnership between *FIRST* (For Inspiration and Recognition of Science and Technology) and The LEGO Group, inspires future scientists and engineers.

2007 FACTS

- 106,000 kids worldwide
- 10,607 teams
- 38 countries
- Power Puzzle challenge
- 8-week design and build period
- 29,000 volunteers
- Over 200 sponsors
- Over 370 Qualifying events
- 87 Championship Tournaments
- 1 World Festival
- 2 Open Championships

FLL Kids:

- Learn teamwork skills
- Build self-confidence, knowledge and life skills
- Research challenges facing today's scientists
- Design, build and program autonomous robots
- Use LEGO MINDSTORMS® technologies
- Compete in tournaments and present their solutions to a panel of judges
- Corporate sponsors
- New real-world game challenge each year
- Sports-like tournament events with judges and awards

How FLL Works:

- Teams of up to 10 kids, ages 9-14
- Adult coaches and mentors
- Schools, home schools, churches, civic groups, neighborhood groups
- Parents, teachers, community volunteers

What FLL Offers:

- Discovery of the fun in science and technology
- Real-world application of science and math concepts
- Hands-on problem solving
- Programming experience
- Research presentation project
- Adult role models
- Teamwork skills
- Self-esteem and confidence

For more information
800-871-8326 ■ 603-666-3906
usfirst.org ■ firstlegoleague.org