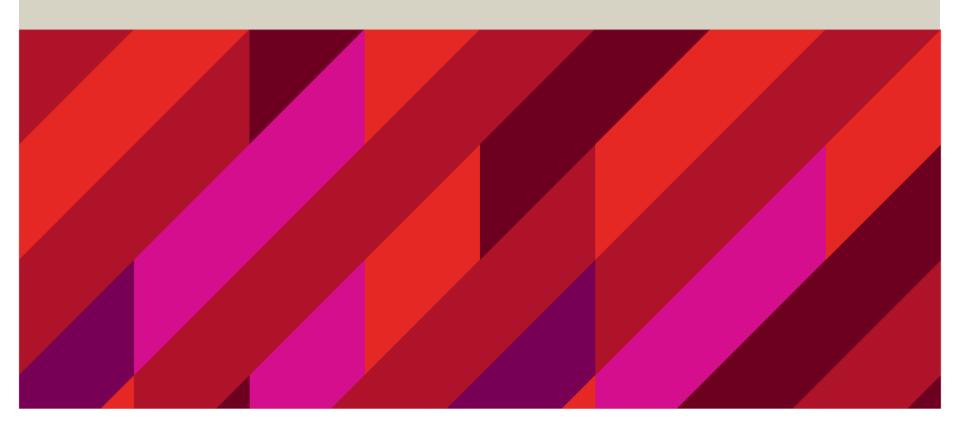


FIRST in Libraries: Inspiring STEM

20 October 2015







WHO DO STUDENTS LOOK UP TO TODAY?





















WHAT ARE THE MAJOR PROBLEMS FACING THE WORLD?





















31,000





For Inspiration and Recognition of Science and Technology

SPORT FOR THE MIND

- The excitement of a sports competition
- The smarts of a science fair

GRACIOUS PROFESSIONALISM





The FIRST Progression





Ages 5-9 Up to 6 Students



Ages 9-16 Up to 10 Students



Ages 14-18 Up to 15 Students



Ages 14-18 Unlimited Students









FIRST Core Values





- We are a team
- Gracious Professionalism[®]
- We are all winners
- We have fun



Why FIRST?



- URGENT need for ENGINEERS
- TWICE as likely to attend UNIVERSITY
- 10x more likely to study ICT/STEM
- 3x more likely to major in ENGINEERING
- WOMEN are 4x more likely to pursue SCIENCE / ENGINEERING in University

FIRST LEGO League (FLL)



- 30K+ teams
- 90 countries
- 250,000 students world-wide







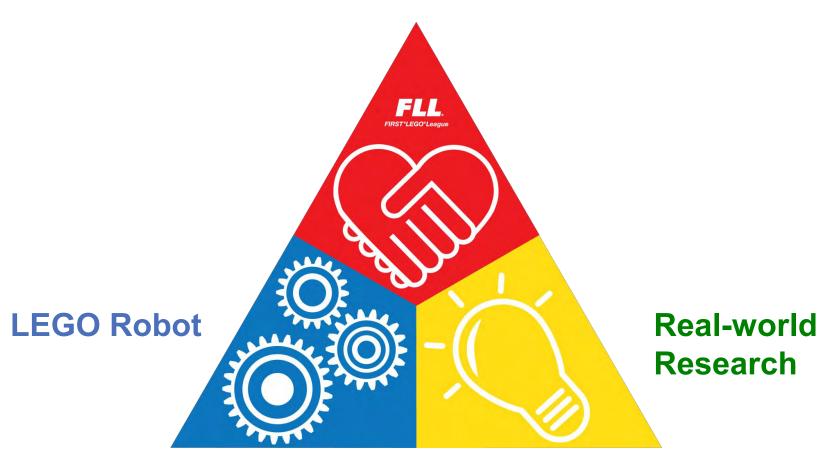




What is FLL?



Core Values





The Robot



- RCX, NXT, EV3
- MINDSTORMS, NXT-G, EV3, RoboLab
- Motors, Sensors
- 3 rounds, 2 ½ minutes
- Programming,
 Mechanical Design,
 Strategy & Innovation





The Research Project



- Real World Solutions to Real World Problems
- Innovative Solution, Presentation, Research
- Global Innovation Award





Core Values



- Unknown problem to solve
- Time Management, Roles
- Inspiration, Teamwork, Gracious Professionalism



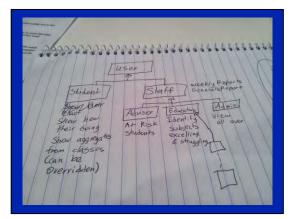
FIRST Tech Challenge (FTC)



Robot



Engineering Notebook



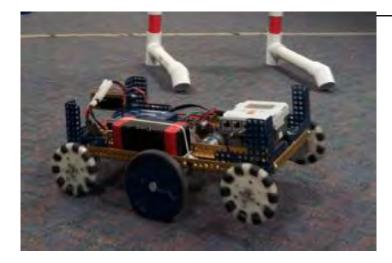
Core Values (Teamwork, etc)





Ring It Up







FIRST Robotics Competition (FRC)



- Work alongside technical professionals
- Controls, Systems, Mechanical, Electrical



FIRST Robotics Competition (FRC)



- ENGINEERING "START-UP"

- MORE THAN JUST ROBOTS

Business

Media

Animation

Web

Marketing

Finance















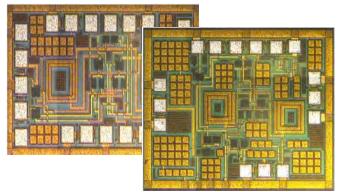














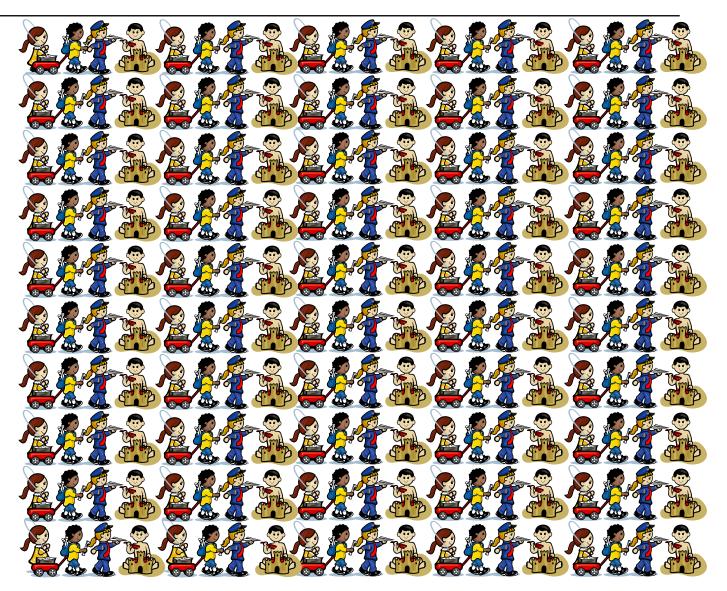






2009 2013











Alumni



INTERNSHIPS

- Google, CSIRO, NICTA, ...

PRESTIGIOUS SCHOLARSHIPS

- Google Anita Borg Scholarship

GLOBAL LEADERSHIP PROGRAM

MISSION TO MARS

UNIVERSITY HONOURS AND SUCCESS



You're Invited





Brisbane Regional Tournaments

November 2015

Australian National Tournament

5 December 2015

Asia Pacific Open Championship

July 2016



Brisbane Regional Tournament

November 2015

Australian National Tournament

5-6 December 2015



Australian Regional