



# FIRST Robotics



FIRST is an International competition that teams professionals and young people (grades 9-12) in solving an engineering design challenge in 6 weeks time. The BadgerBOTS program provides a life-changing, multi-faceted, career-molding experience -- and a lot of FUN! Competitions are high-tech spectator events. Success is achieved through brainstorming, real-world teamwork, dedicated mentoring, and gracious professionalism.



**Accomplishments:** In its first three years the BadgerBOTS Robotics program has earned the Rookie All-Star Award and the Engineering Inspiration Award to twice qualify for the National Championship.

**Mission Statement:** To engage students in science, technology, engineering, and mathematics and to promote literacy and participation in these areas. BadgerBOTS shares resources with schools, makes hundreds of presentations each year, and has developed a summer camp, Tech Clubs, and multiple LEGO League teams to support and inspire younger students through robotics related experiences.

*"The FIRST spirit encourages doing high-quality, well informed work in a manner that leaves everyone feeling valued."* Dr. Woodie Flowers,

MIT Professor and FIRST Advisor



## BadgerB.O.T.S. (Building On Talented Students)



# LEGO League

**The FIRST LEGO League (FLL) Experience...**



Each September, the FLL season starts with the announcement of the annual challenge. The challenge engages FLL teams (grades 4-8) in the same problem solving process practiced in industry: research, strategize, design, build and test.



**Robot Game:** Design and program a LEGO robot to achieve missions on the playing field. Point values are associated with each mission objective. The game has an annual theme such as renewable energy, nano-technology, or space exploration.

**The Project:** Teams explore current or future applications of the annual theme and design an improvement or solve a current challenge.

**Junior FIRST LEGO League**

Geared to 6 to 9 year olds, teams receive a mini-challenge based on the FLL annual project.

