



## about **FIRST**

The purpose of FIRST is “to transform our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology heroes.”

-Dean Kamen, Founder

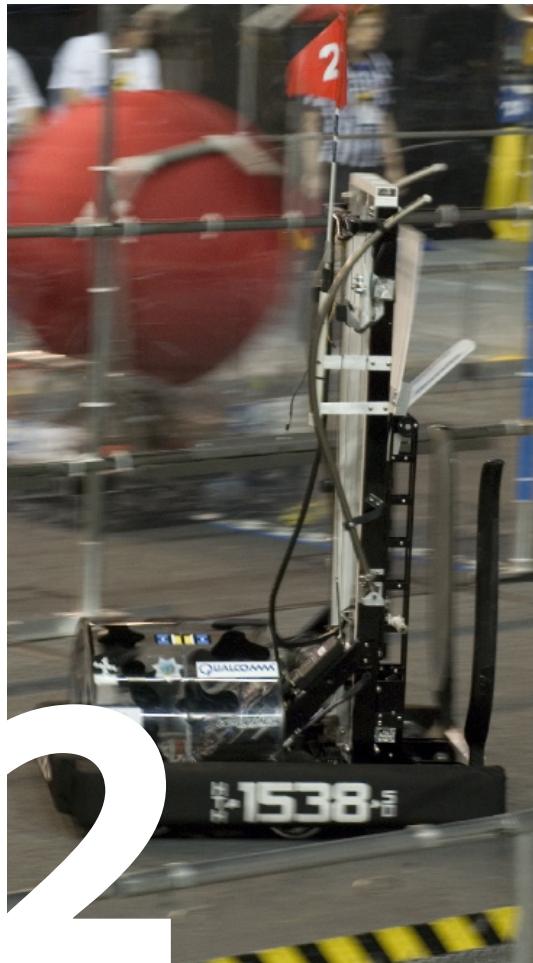
“FIRST Robotics Competition (FRC) is a unique varsity sport of the mind designed to help high-school-aged young people discover how interesting and rewarding the life of engineers and researchers can be. The FIRST Robotics Competition challenges teams of young people and their mentors to solve a common problem in a six-week time frame using a standard “kit of parts” and a common set of rules. Teams build robots from the parts and enter them in competitions designed by Dean Kamen, Dr. Woodie Flowers, and a committee of engineers and other professionals.”

-FIRST ([www.usfirst.org](http://www.usfirst.org))

“FIRST Robotics is not only a group of my friends, but a supportive environment where I can grow as an individual. It has allowed me to become a better team worker, as well as help me expand my horizons academically .”

-Alex Riolo, Team 1538 member





## team 1538

What began as a group of five friends in the fall of 2004 has evolved and become a force to be reckoned with. The Holy Cows have shed their modest beginnings and now boast over thirty members and six mentors.

Run like a business, The Holy Cows have department heads for both Engineering and Marketing/Finance, with managers in each department. During the off-season, the team spends hours spreading awareness of the FIRST Program by performing thousands of hours of community service and presenting at schools, companies, and conventions. The off-season also means writing grants, recruiting new members, and maintaining past seasons' robots. When January rolls around, the team spends six weeks developing and machining a robot. In January of 2005 the team hosted the Kick-Off event for Team San Diego, a coalition of all the San Diego FIRST Robotics teams, and has continued to do so annually. Now in its fifth season, the team is more experienced and dedicated than ever before.

**Motto: Leading the Herd**

## about HIGH TECH HIGH

High Tech High began in 2000 as a single charter high school launched by a coalition of San Diego business leaders and educators. It has evolved into an academic development organization with a growing portfolio of innovative charter schools spanning grades K-12. HTH combats the twin problems of student disengagement and low academic achievement by creating personalized, project-based learning environments where all students develop close academic relationships with their teachers and are challenged to meet high expectations. HTH schools attempt to show how education can be redesigned to ensure that all students graduate well prepared for college, work, and every day responsibilities.





## team **ACHIEVEMENTS**

### **Awards/Competitions**

- 2008** World Championship - 43<sup>rd</sup> in Newton Division
- 2008** Los Angeles Regional - Quarterfinals, Xerox Creativity Award & Engineering Inspiration Award
- 2008** San Diego Regional - Semifinalists, Woodie Flowers Finalist Award & Imagery Award
- 2007** Fall Classic - Finalists
- 2007** Las Vegas Regional - Semifinalists & Imagery Award
- 2007** San Diego Regional - Semifinalists & Delphi's Driving Tomorrow's Technology Award
- 2006** World Championship - 9<sup>th</sup> Seed in Archimedes Division
- 2006** Las Vegas Regional - Quarterfinals & Imagery Award
- 2005** Las Vegas Regional - Quarterfinals

## last **SEASON**

In 2008 The Holy Cows won five awards: Imagery Award, Xerox Creativity Award, Engineering Inspiration Award, Woodie Flowers Finalist Award and Volunteer of the Year Award. In addition they placed as semi-finalists in San Diego and quarter-finalists in Los Angeles.

The team also won the prestigious Woodie Flower's Award, for its mentor's tireless dedication and hard work, and the Engineering Inspiration Award for its community service and dedication to spreading the message of FIRST.





## the **BUDGET**

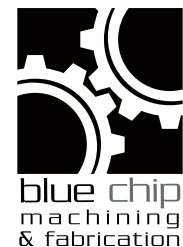
<b>Registration Budget</b>	\$15,000
<b>Travel Budget</b>	\$12,500
<b>Robot Budget</b>	\$3,000
<b>Marketing Budget</b>	\$500
<b>Pit Design</b>	\$250
<b>Cart Design</b>	\$200
<b>Total Budget</b>	\$35,450

## how **YOU CAN HELP**

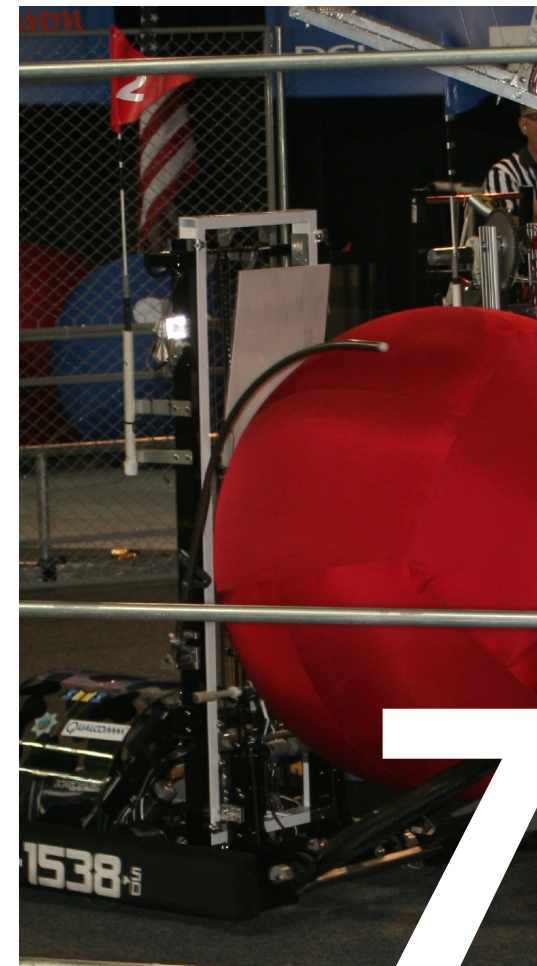
Fiscal support is not the only way you can help Team 1538. Product donations and services are always welcome, and we are constantly looking for new mentors. Mentors show students how math, science, and technology can be used in everyday life. Contributions of any size are greatly appreciated.



**BAE SYSTEMS**



The Gary and Jerri-Ann Jacobs





## sponsor **BENEFITS**

Sponsoring the team is a great way to heighten awareness and show company involvement in the community. Major corporate sponsors of The Holy Cows will be announced along with the team's name at Regional Competitions. Other sponsors can have their logo displayed on team shirts, banners, handouts, the team website, and the robot.

In addition to printed advertisements, sponsor logos can be seen during multiple television appearances. Students have been featured on: FOX, NBC, KUSI, CBS, in the Union Tribune and Peninsula Beacon News. FIRST's Regional and National Championship competitions are also broadcasted on national television (NASA TV).

Sponsorship inspires the minds of the Holy Cows' thirty members and helps build a technologically advanced workforce. In FIRST, students develop tools for life and engineering as well as business management, fundraising and budget skills.

- Platinum Sponsor** (\$10000+)
  - Name/Logo on our Web Site w/Link
  - Subscription to our Sponsors Newsletter
  - Logo on our Competition Banner
  - Logo on our robot (Decal)
  - Logo on our T-Shirt
  - Team T-Shirt
  - Team Trinket
- Name mentioned at all Official Competitions
- Gold Sponsor** (\$5000+)
  - Name/Logo on our Web Site w/Link
  - Subscription to our Sponsors Newsletter
  - Name on our Competition Banner
  - Logo on our robot (Decal)
  - Logo on our T-Shirt
  - Team T-Shirt
  - Team Trinket
- Silver Sponsor** (\$1000+)
  - Name/Logo on our Web Site w/Link
  - Subscription to our Sponsors Newsletter
  - Logo on our Competition Banner
  - Name on our T-Shirt
  - Team T-Shirt
  - Team Trinket
- Bronze Sponsor** (\$500+)
  - Name/Logo on our Web Site w/Link
  - Subscription to our Sponsors Newsletter
  - Name on our Competition Banner
  - Team T-Shirt



## holy cow **LEADERSHIP**



### **RJ Sheperd / Director of Marketing and Finance / 7th Year**

RJ Sheperd is a junior enjoying his seventh year in FIRST Robotics. This year, he is the Director of Marketing and Finance. RJ enjoys all aspects of FIRST, including presentations at community events and being a part of the design and build process. After graduating from High Tech High, RJ hopes to obtain a degree in engineering and business.



### **Molly Tremblay / Manager of Team Support / 2nd Year**

Molly Tremblay is a HTH senior and a second year member on The Holy Cows. This year she is the Manager of Team Support and the official Holy Cows Mascot. As a part of the team, Molly is involved in Marketing and Finance, graphic design, and writing award submissions and presentations. After graduating this year she intends to double major in biology and writing.



### **Justin Ripley / Manager of Electrical / 8th Year**

Justin Ripley is a junior at High Tech High International. While this is his first year with The Holy Cows, Justin has been involved with FIRST Robotics since the fourth grade. This year, Justin is the manager of electronics. Outside of robotics, Justin enjoys playing the viola with the San Diego Young Artists Symphony and running with his school's cross country and track teams.

### **Jessica Raptis / Director of Engineering / 2nd Year**

Jessica Raptis has been heavily involved in the Holy Cows since she joined the team in 2007. As a senior at HTH Jessica is the Director of Engineering, but is also involved in creating presentations and team organization. As an aspiring mechanical engineer, Jessica's favorite part of the team is building the robot. In addition to a mechanical engineering degree, Jessica is also interested in becoming a certified pilot.



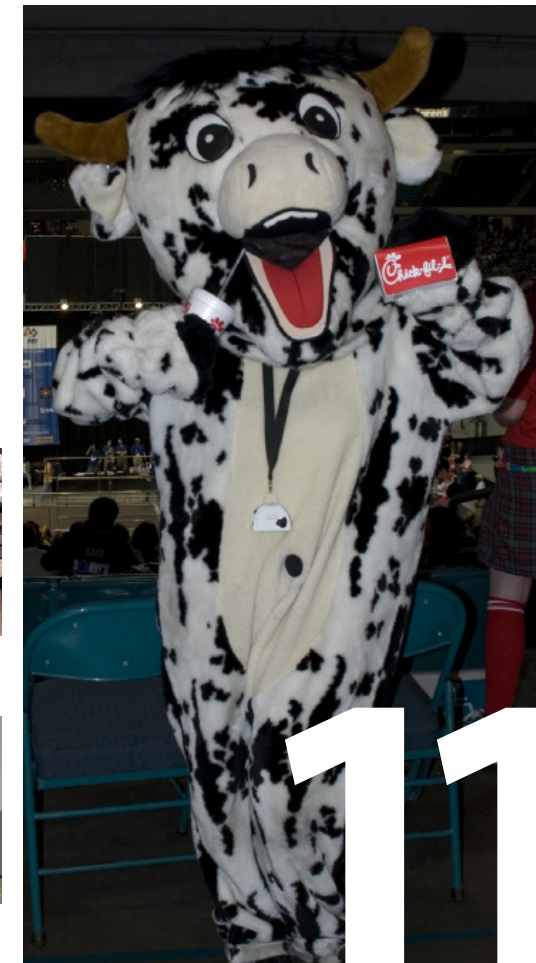
### **Jeb Brooks / Manager of Programming / 8th Year**

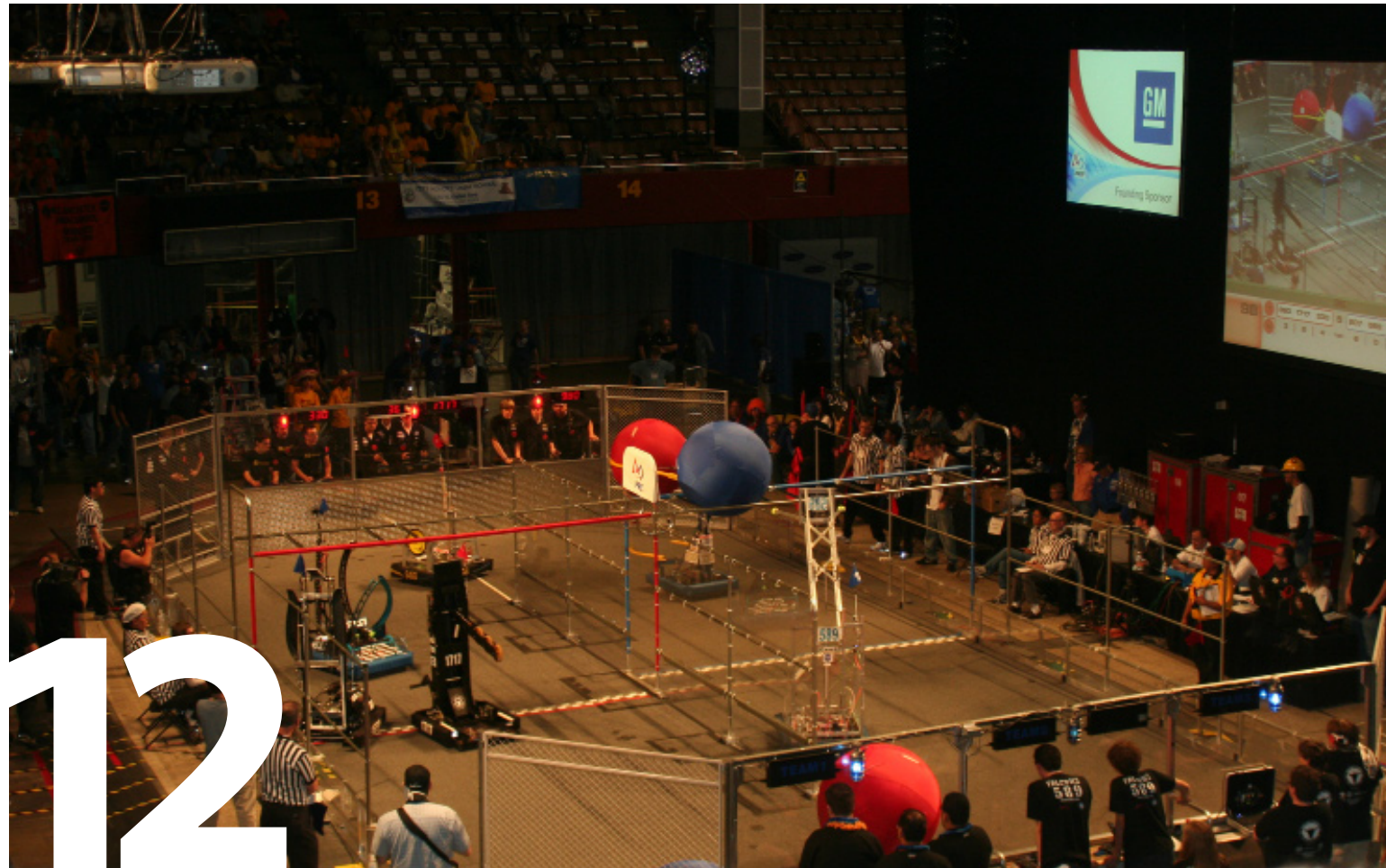
Jeb Brooks is currently a junior, and has been involved in FIRST for eight years. He has been with The Holy Cows for two years, and has participated in every division of FIRST including FLL, FTC, and FRC. This year he is the Manager of Programming. In the future he hopes to achieve an engineering degree and pursue robotics.



### **David Berggren / Team Mentor / 5th Year**

David Berggren is the lead mentor of Team 1538, The Holy Cows as well as the Mechanical Engineering Instructor at High Tech High. David left the marine engineering industry to teach at High Tech High. He put together a FIRST team and was hooked after seeing the program's powerful effect on the students. In his spare time, David runs his own business with his father machining and fabricating metals.





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