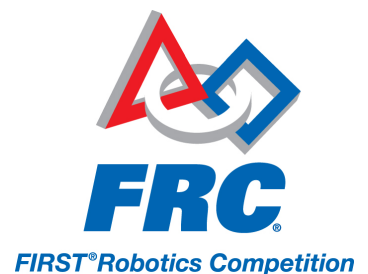


Sponsor Information Packet

Woodlawn High School's **PANTHROBOTICS**



FIRST Team #3337





Executive Summary

Woodlawn High School's Robotics Team, Panthrobotics (FRC #3337), provides students the opportunity to engage engineering, science, technology, and business skills in a high-impact, hands-on environment.

Panthrobotics motivates students from all walks of life to employ the skills they have learned in school to real-life experiences¹. Each year, club members design a robot from a set of common parts to compete in robotics competitions through FIRST (For Inspiration and Recognition of Science and Technology). They accomplish this task in six weeks with the help of engineers, scientists, and other mentors. The team then competes with this robot against thousands of other schools from around the world in regional competitions and at the World Championship in Saint Louis, Missouri.

Panthrobotics creates opportunities for students to engage science and technology through participation in these yearly robotics competitions. Studies have shown that participants in FIRST Robotics Competitions are:

- ◆ Three times more likely to major in engineering.
- ◆ More than twice as likely to pursue a career in science or technology
- ◆ More than twice as likely to volunteer in their communities³.

Panthrobotics is a student-run school club whose members also engage in the management of team infrastructure. Members learn how to manage an organization through day-to-day business processes and by engaging in organizational committees.

Panthrobotics depends on the funding provided by Sponsors that recognize the need for a workforce trained in the fields of science, engineering, and business. The team requires approximately \$50,000 to cover yearly budget costs such as travel, registration fees, and building components⁴. Sponsors also provide a consistent group of mentors to assist in the management of the team as well as lending their experience to students in the design and implementation of the robot⁵.

Organizations that choose to support Panthrobotics through a tax-deductible donation are publically acknowledged in the media, our promotional material and the robot itself⁶. By lending support and funding, sponsors can guarantee that students will leave their high school with the skills necessary to succeed as well as lead in today's society.

1. Further details can be found in "About our School" (Page 4)

2. Further details can be found in "What is First" Section (Page 8)

3. According to a study done by FIRST and Brandeis University. More information can be found at: <http://www.usfirst.org/who/content.aspx?id=46>

4. Further details can be found in our "2011-2012 Budget" (Page 7)

5. Further details can be found in "Why Give?" (Page 5)

6. Further details can be found in "You Helping Us" (Page 6)

Mission Statement

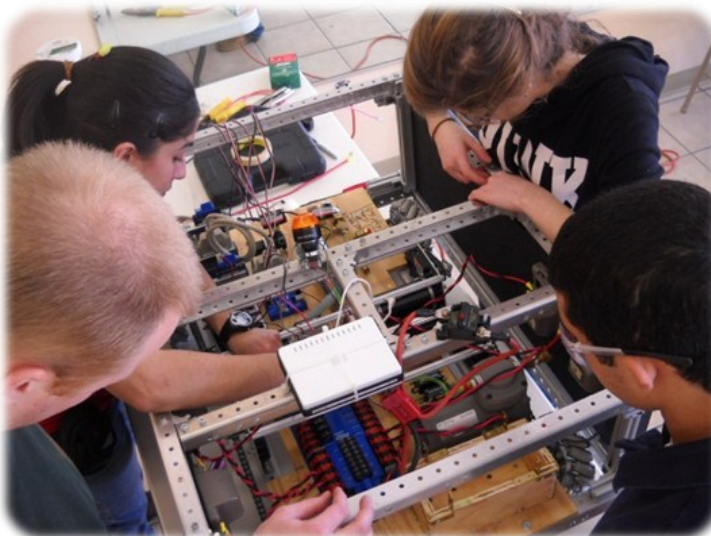


2010-2011 Panthrobotics Team

Team Panthrobotics is a multicultural team of students engaged in bringing a passion for math, science, engineering and computing to our school and community by participating in yearly FIRST Robotics competitions.



Students assemble a robot frame.



A group of students work on electrical components.

Through this experience, we learn important skills that will aide us in becoming professionals. We are also working to establish FIRST Robotics teams throughout the Baton Rouge area to revitalize our educational system and create a vibrant community of leaders.

About our School

Woodlawn High School is a Title I funded Public School in East Baton Rouge Parish in Baton Rouge, Louisiana. Established in 1949, WHS now educates over 1300 students from all across the Baton Rouge area. Woodlawn boasts a number of offerings that range from its Gifted and Talented program to its award winning Band, ROTC and Sports program.



Student Population Statistics:

69% of students are minority students.

59% of students are on free or reduced lunch.

70% of students graduated on time in 2009-2010.¹

Woodlawn's Robotics Club plays a pivotal role in our school by providing students hands-on experience in the fields of science, technology, engineering, and mathematics (STEM). It is the desire of Panthrobotics to increase graduation rates among our school population by providing engaging ways to explore academic concepts. By pursuing populations that are underrepresented in the STEM fields we will increase the likelihood that they will pursue careers in these fields.

1. From "District At a Glance" by The Louisiana Department of Education (2010-2011)

Why Give?

Your donation to Panthrobotics supports an organization that is equipping students to enter college and the work-place with more than just book knowledge. Students who participate in FIRST robotics competitions learn in a hands-on way both the how and the why of engineering, programming, design, and business skills. They learn to answer questions such as:



Lead Mentor, Engineer Hugo Salom Sr., instructing students

"How do you calculate yield strength?"

"How do you install a pneumatic system?"

"How do you convert a 3d model to a real world product?"

"Why are business plans important and how are they developed?"

...And countless others

Your donation is also supporting outreach into the Baton Rouge community, where our members are demonstrating the power of science, engineering, and computing to our local community. Currently we are involved with:

- ♦ Elementary and Middle School Students
- ♦ Shopping Mall Patrons
- ♦ Our local community

As a Sponsor of our team, we will also return this generosity in kind with advertising and a visible presence wherever we travel.

You Helping Us



Team members at the World Championship in Saint Louis.

There are many different ways that you can help Panthrobotics. Some examples are:

- ♦ Monetary donations
- ♦ Advisor support or paid volunteering hours for employees.
- ♦ Offering facilities, such as machine shops, for use.
- ♦ Donating equipment or software, especially laptops.
- ♦ Donating or providing a discount on goods and/or services.

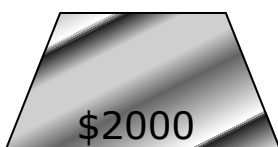
Diamond



\$5000

You are registered as a Major Sponsor and your name is announced at each competition

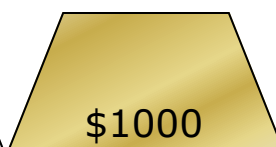
Platinum



\$2000

Your logo and name are placed on our Robot.

Gold



\$1000

Your logo and name are placed on our t-shirt.

Silver



\$500

Your logo and name are placed on our promotional material

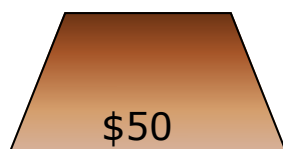
Bronze



\$100

Your logo and name are placed on our website.

Partner



\$50

You receive a letter of appreciation and a framed picture.

Supporter



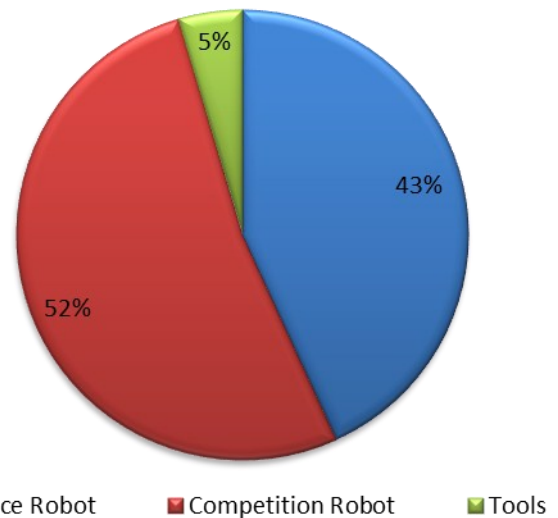
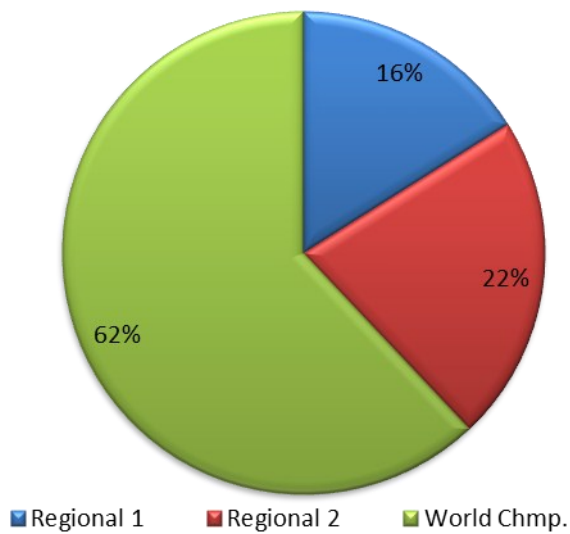
\$25

You receive a letter of appreciation.

Expenses



Travel and Registration



*Amounts are estimates and subject to change dependent on the number of team members as well as changes in the design process and travel costs.

What is FIRST

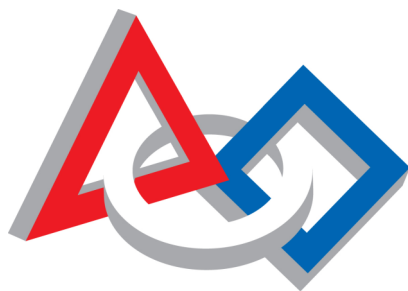
FIRST (For Inspiration and Recognition of Science and Technology) is a non-profit organization founded by inventor Dean Kamen to inspire a passion for science and technology in young people.

Kamen, the inventor of the first portable insulin pump, Segway, and owner of over 440 national and international patents began FIRST "to transform our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology leaders."¹



Dean Kamen talks to a group of high school students

Each year, FIRST hosts robotics competitions that encourage students from as young as five to use science, engineering, and technology to build and program robots that can engage in competition against other bots from around the world. These students, along with the help of mentors learn skills in science, mathematics, technology, engineering, and even business-related skills.



FIRST[®]

For more information, please visit:
<http://www.usfirst.org/>

FIRST[®] Programs:

Jr. *FIRST*[®] Lego[®] League (Grades K-3)

FIRST[®] Lego[®] League (Grades 4-8)

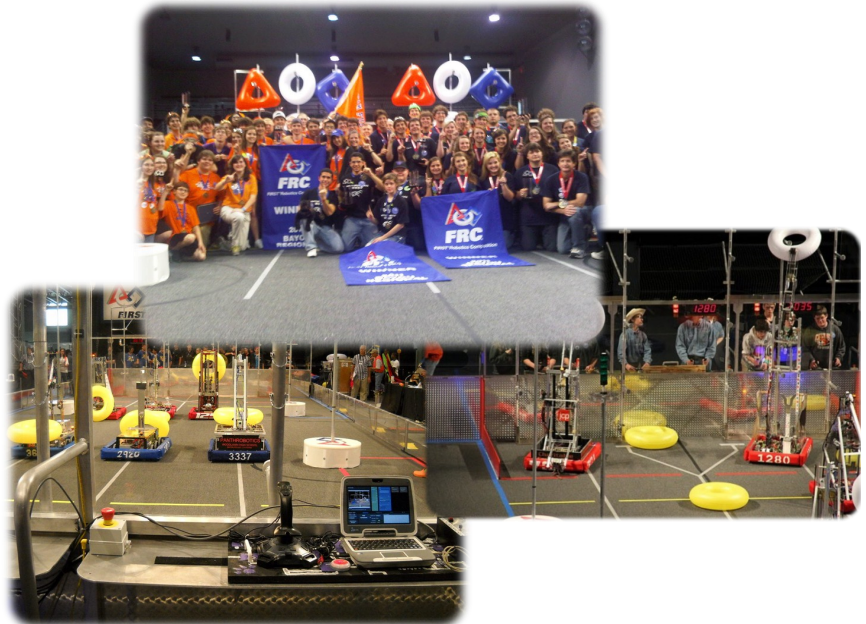
FIRST[®] Tech Challenge (Grades 9-12)

FIRST[®] Robotics Championship (Grades 9-12)

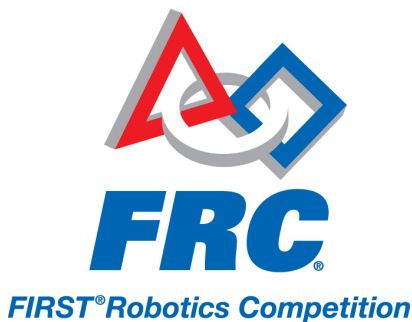
1. A quote from Dean Kamen on <http://www.usfirst.org>.

What is FRC

The First Robotics Competition (FRC) is known as “the varsity sport of the mind”. It is the most intense of the FIRST® programs, requiring students to build and program robots under strict rules, limited resources, and specific time limits. These robots are required to perform certain tasks while competing against other robots from different teams.



Images from the 2010-2011 FRC Season



Besides the challenge of building a fully functional robot in six weeks of time, students are also challenged to develop a well-rounded team that can raise the funds necessary to participate. Students do not work alone, however. They also enlist the help of professional mentors to help them design, build and program their robot.

Students in FRC get to:¹

- ◆ Learn from professional engineers
- ◆ Build and compete with a robot of their own design
- ◆ Learn and use sophisticated software and hardware
- ◆ Compete and cooperate in alliances and tournaments
- ◆ Earn a place in the World Championship
- ◆ Qualify for more than \$14.8 million in college scholarships

FRC is a competitive sport but it is also an opportunity for students to learn “real world” engineering skills and prepare themselves to be leaders.

1. From: <http://www.usfirst.org/roboticsprograms/frc>

Our History

Panthrobotics was first started in the 2009 under the guidance of Dr. Steven Griffin, a physics and chemistry teacher at Woodlawn High School at the request of his students and parents. This team competed successfully in the 2009-2010 FIRST Robotics season, attending the Bayou Regional competition in New Orleans and achieving the Rookie Inspiration Award.



2011 Panthrobotics Drivers

In 2010, Social Studies teacher Mr. Daniel Eiland and Math teacher Mr. Jonathan Nester became the new coaches of the team. With the help of two remaining members, seniors Hugo and Daniel Salom, as well as their lead mentor Mr. Hugo Salom, the team set out to compete in the 2010-2011 season.

Team Awards: At the Bayou Regional
2009-2010 Rookie Inspiration Award
2010-2011 Judges Award
2010-2011 Regional Winner

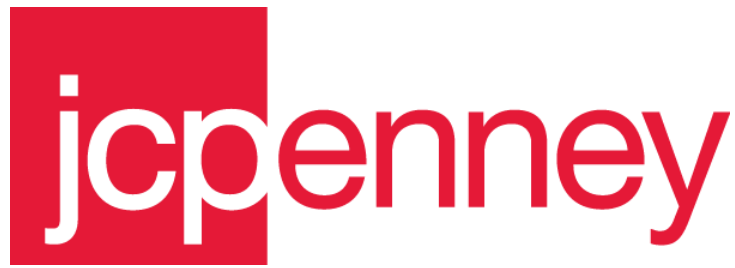
Fifteen members, ranging from freshmen to seniors designed and built a robot that won the 2011 Bayou Regional against forty other teams. The team also brought home the Judges Award for their increased involvement

with the local media. Members then raised the \$15k necessary to attend the World Championship in Saint Louis, where they competed with over 300 other teams.

This year, Panthrobotics has grown to over thirty young men and women who are both culturally diverse and range in ages from freshmen to seniors. With our coaches and mentors, we are ready to for victory in the 2011-2012 season.

2010-2011 Sponsors

We are forever grateful to the organizations that helped us accomplish our goals in the 2010-2011 Season. Without them, we would not have been able to compete nor win.



Demco Power Company, State Farm—Brian Meaux,
ABMB Engineering,
Counter Culture, Powell Electric,
Desormeaux Insurance



How to Help

There are many ways to help with our robotics team. If your organization would like to provide assistance either monetarily or in another way, please detach this form and return it to:

Woodlawn High School
15755 Jefferson Hwy.
Baton Rouge, LA 70817

Contact Information

Company Name _____

Company Address: _____

Address 2: _____

State: _____ Zip Code: _____

Contact Name: _____

Contact Phone
Number: _____ Contact Email: _____

My organization would like to become a:

☐Diamond Sponsor (5000+) | ☐Platinum Sponsor (2000+)

☐Gold Sponsor (1000+) | ☐Silver Sponsor (500+) | ☐Bronze Sponsor (100+)

☐Partner (50+) | ☐Supporter (25+)

Enclosed with this form is our check made out to **Woodlawn High School** for

\$_____.

My organization would also like to help by:

☐ Providing Mentors | ☐ Providing Materials | ☐ Providing Meals |

☐ Providing Machining or Other Technical Services | ☐ Other _____

Thank You



Thank you for taking the time to review our Sponsor Packet. We are excited for all that we've been able to accomplish and know that with the help of our sponsors, coaches, mentors, and community we can continue to grow as a team and as individuals. We look forward to hearing from you soon.

Invention, Design, Passion,



FRC Team #3337

PANTHROBOTICS

For more information, you can contact our Team Coaches:

Daniel Eiland | mrdeiland@gmail.com

Jonathan Nester | jnester@ebrschools.org

PANTHROBOTICS

#3337