



# Team Combustion

FRC Team 1912



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# FIRST Robotics



- For Inspiration and Recognition of Science and Technology (FIRST)
- Established by Dean Kamen in 1989
- To promote Science, Technology, Engineering, and Math (STEM) using a competitive framework for teamwork and project management skills
- Encourages Gracious Professionalism





# Robotics Programs



<u>Competition</u>	<u>Ages</u>	<u>Grades</u>
• FIRST Jr. Lego League	6 - 9	K - 3
• FIRST Lego League	9 - 14	4 - 8
• FIRST Tech Challenge	12 - 18	7 - 12
• FIRST Robotics	14 - 18	9 - 12

School → Regional → International

- 350,000+ students; 32,650 teams; 28,000+ robots; 64,000+ mentors; and 66,000+ volunteers
- Representing 28 countries



# About FRC



- A new game is created each year
- The game is revealed to teams at a “kickoff” held the first Saturday in January
- Teams have a six week “build season” to build a robot to compete in the game
- After the build season the robots compete in regional competitions and the Championship





# Impact on Students



- **FRC Students (from a Brandeis University study)**
  - 84% maintain a “B” average or above
  - 99% graduate High School
  - 89% attend College
  - 69% pursue a STEM career
  - 2x more likely to major in engineering
  - 2x more likely to perform volunteer service
  - 10x more likely to work as an apprentice, intern, or co-op student
  - FIRST offers over \$17M in scholarship opportunities each year





# BLaST and FIRST



- Building Louisiana Science and Technology
- Non-profit, volunteer organization
- Coordinates FIRST events:
  - JrFLL State Expo
  - FLL District Qualifiers
  - FLL State Championship
  - FRC Bayou Regional
- Bayou 2013 - 54 teams from 11 states
- Regional Director:

Carolyn Arthurs  
[carthurs@usfirst.org](mailto:carthurs@usfirst.org)  
[www.FRCBayouRegional.org](http://www.FRCBayouRegional.org)  
504-355-3698





# Team 1912 Awards



- **Team Awards**

- Regional Chairman's at Bayou ('10, '11, '12, '13) The second longest active streak in FIRST!
- Gracious Professionalism ('06, '09, '11)
- Judges ('08)

- **Individual Awards**

- FIRST Dean's List Winner ('12)
- FIRST Dean's List Finalist at Bayou ('10, '10, '11, '12, '13) Tied for most from any team!
- Woodie Flowers Finalist at Bayou ('09, '13)

- **Technical Awards**

- Bayou Regional Winner ('07)
- Engineering Excellence ('10)
- Innovation in Control ('07)
- Quality ('10, '13)
- Coopertition ('10)
- Best Website at Bayou ('11, '12)
- Website Excellence ('08, '10, '11, '12)
- Excellence in Design ('10)



# Outreach: FIRST Flames



*To promote STEM to our region's youth!*

- Coordinate summer science camps, attend public events, and visit area youth programs including:
  - Boys and Girls Club at Yazoo City ('12)
  - Cypress Cove Elementary CSI Science Camp ('10, '11, '12, '13)
  - Cypress Cove Elementary Rocket Camp ('12, '13)
  - Krewe of Slidellians Mardi Gras Parade ('11, '12, '13)
  - Slidell Heritage Festival ('07, '08, '09, '10, '11, '12, '13)







# Outreach: Torchbearers



*To promote community involvement by our students!*

- Volunteer at local service opportunities throughout the year, including:
  - Special Olympics ('11, '12, '13)
  - Kevin Trimble Gift ('11)
  - Bayou Lacombe Cleanup ('13)
  - Hospice Foundation Crawfish Cook-off ('11, '12, '13)
  - Slidell City Cleanup ('09, '10, '12)





# Outreach: Ignition Team



*To promote FIRST Robotics throughout our region!*

- Start and mentor JrFLL, FLL, and FRC teams, and to volunteer at FIRST events, including:
  - Beta Test Team ('10, '11, '12, '13, '14)
  - JumpStart Workshop ('08, '10, '11, '12, '13)
  - JrFLL State Exposition ('12)
  - FLL Regional Qualifier ('12)
  - FLL State Tournament ('10, '11, '12)





# Combustion Triangle



*To promote FIRST Robotics to our supporters!*

- Attend professional showcases and meet with public officials, including:
  - Louisiana State Capitol Rotunda ('10, '11, '12, '13)
  - Hornets Game ('12)
  - Louisiana Technology Council “Robotics Revelry” ('13)
  - Louisiana State PTA Conference ('13)
  - ISA Regional Board Meeting ('13)
  - Tulane Engineering Conference ('09, '11, '13)





# Team Combustion's Students



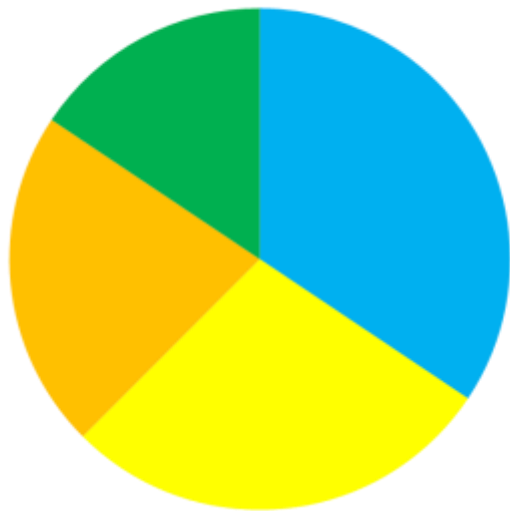
*Good Investment!*

- **31 students:**

- Gender and ethnic diversity
- Grade distribution to ensure long term team stability

- **Strong academically:**

- Highest ACT scores in parish
- National Merit Semi-Finalists
- State Literary Rally
- Success in AMC, Mu Alpha Theta, JETS, Zero Robotics
- All alumni continuing education



**Students**

- Seniors
- Juniors
- Sophomores
- Freshmen

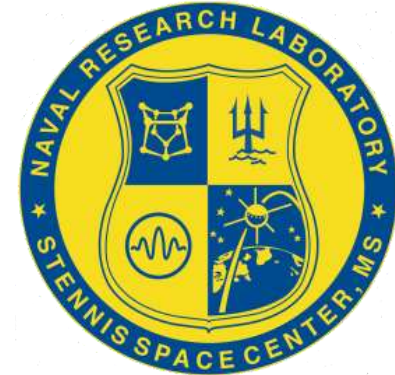






# Team Combustion's Mentors

*Representing a wide variety of organizations!*



Human Energy<sup>®</sup>

# JACOBS<sup>™</sup>



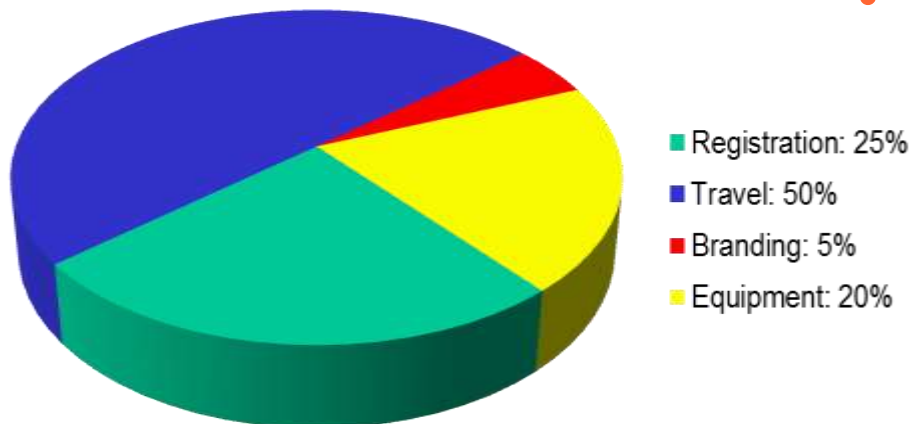


# Typical Budget



- A minimum of \$20,000 is required to run a robotics team each year
- Business Plan drafted annually
- Event Registration Fees (first event includes a standard kit of parts)
- Travel (buses, lodging, etc.)
- Branding (t-shirts, banners, etc.)
- Materials (equipment, tools, parts, etc.)

2013 Budget

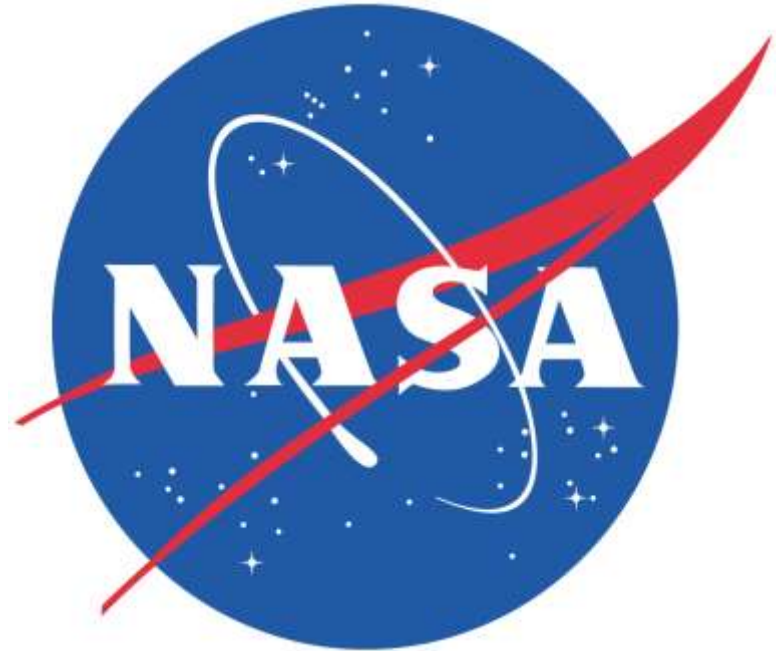




# NASA Partnership



- NASA Stennis House Team
- 1 of 3 House Teams in LA/MS region
- Only 37 House Teams nationwide
- Signifies sustained regional leadership





# Corporate Sponsorships



*We would love to have your Sponsorship!*

- Primary fundraising is through corporate sponsorships
- Investment in the development of future scientists and engineers for your industry
- Marketing

**As a sponsor your logo will be featured on our:**

- Award-winning website
- T-shirts
- Banners
- Robot
- Promotional Brochures and Flyers
- Pocket Folder (presented to judges)
- Anywhere else appropriate, with prior permission





# Questions?



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