



FIRST Robotics Competition



Ages \approx 14-18 (9th to 12th Grade)

4-H Project Record Book/Report

FRC; the varsity Sport for the Mind™, FRC combines the excitement of sport with the rigors of science and technology. Under strict rules, limited resources, and time limits, teams of 25 students or more are challenged to raise funds, design a team "brand," hone teamwork skills, and build and program robots to perform prescribed tasks against a field of competitors. It's as close to "real-world engineering" as a student can get. Volunteer professional mentors lend their time and talents to guide each team.

Name: _____ Date: _____

Age: _____ Years in 4-H _____ # of years in this program _____

Mailing Address: _____

County: _____ City: _____ State: _____ Zip: _____

Grade in School: _____ Name of School: _____

Your 4-H County: _____ Your 4-H Agent: _____

Club/Group: _____

Club Lead/Coach: _____

Parents/Guardian Name: _____

I personally prepared this record/report and it is a true record of my 4-H FRC Project.

4-H Member Signature: _____ Date: _____

Approval of this report:

Parents/Guardian: _____ Date: _____

4-H Leader/Coach: _____ Date: _____

Instructions:

- Complete a project record/report for your FRC Project and submit the report with all of the attachments. Use additional pages if needed.

SECTION 1: Objectives and Goals

What are your goal(s) for this FRC Season and what do you expect to learn?

SECTION 2: Project Bookkeeping Report for TEAM

Items	Expense	Income
Example (FRC Registration 1 st Regional)	\$5,000	
Example (Publix Fundraiser)		\$300.00
TOTALS		

* you can add your Robot Bill of Materials

Profit or Loss:

This Season our Team Income Totals	\$
This Season our Team Expenses Totals	\$
Which gave our team a Net Profit or Loss of	

SECTION 2: Teamwork/ Gracious Professionalism

Gracious Professionalism: FIRST often uses this term, and it goes a long way to describing the program's intent. Woodie Flowers asks this question: "Why do FIRST folks talk so much about that phrase?" As a mentor and facilitator, you know that this is one of the most important concepts you can teach a young person ready to learn how to get along in the work world. At FIRST, we see team members helping team members, but we also see teams helping other teams. This is a real indicator that this concept is effective and productive. You may want to spend a good portion of time going over what Woodie says below.

"Obviously it would not make sense to endorse "asinine professionalism" or "gracious incompetence." It is, however, completely consistent with the FIRST spirit to encourage doing high quality, well informed work in a manner that leaves everyone feeling valued. Gracious professionalism seems to be a good descriptor for part of the ethos of FIRST. It is part of what makes FIRST different and wonderful.

Gracious professionalism has purposefully been left somewhat undefined because it can and should mean different things to each of us. We can, however, outline some of its possible meanings. Gracious attitudes and behaviors are win-win. Gracious folks respect others and let that respect show in their actions. Professionals possess special knowledge and are trusted by society to use that knowledge responsibly. Thus, gracious professionals make a valued contribution in a manner pleasing to others and to themselves.

In FIRST, one of the most straightforward interpretations of gracious professionalism is that we learn and compete like crazy, but treat one another with respect and kindness in the process. We try to avoid leaving anyone feeling like they are losers. No chest thumping barbarian tough talk, but no sticky sweet platitudes either. Knowledge, pride and empathy comfortably blended.

Understanding that gracious professionalism works is not rocket science. It is, however, missing in too many activities. At FIRST, it is alive and well. Please help us take care of it. In the long run, gracious professionalism is part of pursuing a meaningful life. If one becomes a professional, and uses knowledge in a gracious manner, everyone wins. One can add to society and enjoy the satisfaction of knowing that you have acted with integrity and sensitivity. That's good stuff!"

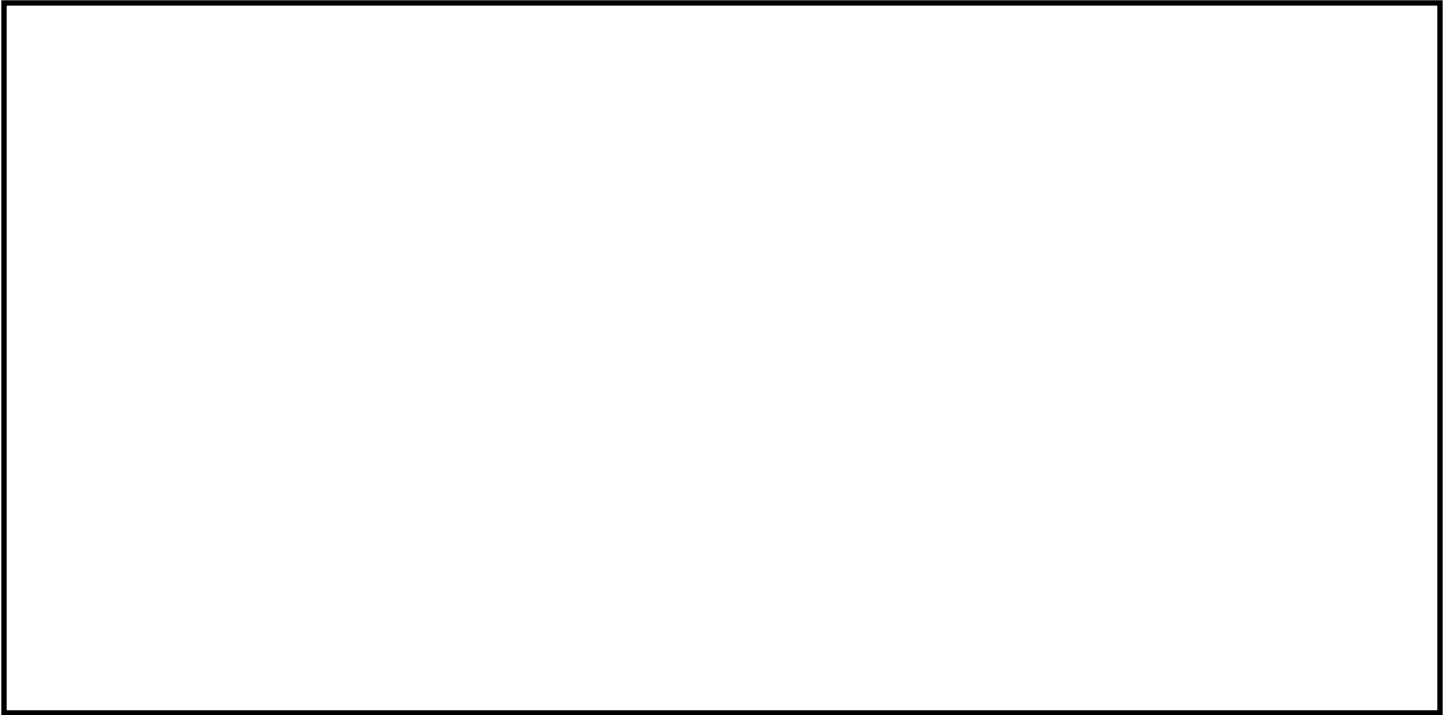
Complete these questions if you can: (use additional paper if needed)

What was your favorite teamwork activity?

What challenges did your team have to overcome?

SECTION 4: ROBOT DESIGN

Picture of our teams Robot Design concept:



Describe the mechanical design:

Programming Information:

Goals for Competition Events:

Changes Made to the Robot during Competition Season at events:

Some Resources can be found at:

<http://frc-manual.usfirst.org/>

<http://www.usfirst.org/roboticsprograms/frc/technical-resources>

<http://www.usfirst.org/roboticsprograms/frc/control-system>

<http://www.usfirst.org/roboticsprograms/frc/cad-design-and-animation>

<http://www.usfirst.org/roboticsprograms/frc/safety-video-and-manual>

SECTION 5: COMPETITION EVENTS/AWARDS & RECOGNITION

FRC Awards Available:

Award	Description	Selected By
Chairman's Award	The most prestigious award at <i>FIRST</i> , it honors the team that best represents a model for other teams to emulate and best embodies the purpose and goals of <i>FIRST</i>	Chairman's Judge Panel (application and interview process)
Creativity Award <i>Sponsored by Xerox</i>	Celebrates creativity in design, use of component, or strategy of play.	Judges
Engineering Inspiration Award	Celebrates outstanding success in advancing respect and appreciation for engineering within a team's school and community.	Judges
Entrepreneurship Award <i>Sponsored by Kleiner Perkins Caufield & Byers</i>	Celebrates the entrepreneurial spirit by recognizing a team that has developed the framework for a comprehensive business plan to scope, manage, and achieve team objectives.	Judges
Excellence in Engineering <i>Sponsored by Delphi</i>	Celebrates an elegant and advantageous machine feature.	Judges
<i>FIRST</i> Dean's List Award	Celebrates outstanding student leaders whose passion for and effectiveness at attaining <i>FIRST</i> ideals is exemplary.	Dean's List Judge Panel (nomination & interview process)
<i>FIRST</i> Future Innovator Award <i>Sponsored by the Abbott Fund</i>	Celebrates innovation and intellectual property creation inspired by the <i>FIRST</i> season experience.	<i>FIRST</i> Future Innovator Award Judge Panel
Founder's Award	Recognizes the organization or individual that has contributed significantly to the growth of <i>FIRST</i> .	<i>FIRST</i>

Gracious Professionalism® Award <i>Sponsored by Johnson & Johnson</i>	Celebrates outstanding sportsmanship and continuous gracious professionalism in the heat of competition, both on and off the playing field.	Judges
Highest Rookie Seed Award	Celebrates the highest-seeded rookie team at the conclusion of the qualifying rounds.	Robot Performance
Imagery Award <i>In honor of Jack Kamen</i>	In honor of Jack Kamen, Dean's father, for his dedication to art and illustration and his devotion to FIRST. This award celebrates attractiveness in engineering and outstanding visual aesthetic integration of machine and team appearance.	Judges
Industrial Design Award <i>Sponsored by General Motors</i>	Celebrates form and function in an efficiently designed machine that effectively addresses the game challenge.	Judges
Industrial Safety Award <i>Sponsored by Underwriters Laboratories</i>	Celebrates the team that progresses beyond safety fundamentals by using innovative ways to eliminate or protect against hazards.	Safety Advisors
Innovation in Control Award <i>Sponsored by Rockwell Automation</i>	Celebrates an innovative control system or application of control components – electrical, mechanical or software – to provide unique machine functions.	Judges
Judges' Award	During the course of the competition, the judging panel may decide a team's unique efforts, performance, or dynamics merit recognition.	Judges
Media & Technology Innovation Award <i>Sponsored by Comcast NBCUniversal</i>	Award recognizes the team that develops and implements the most outstanding digital experience, marketing strategy, and rationale for digital channels to disseminate content to its audience and further the <i>FIRST</i> mission.	Comcast NBCUniversal
Quality Award <i>Sponsored by Motorola</i>	Celebrates machine robustness in concept and fabrication.	Judges
Rookie All Star Award	Celebrates the rookie team exemplifying a young but strong partnership effort, as well as implementing the mission of FIRST to inspire students to learn more about science and technology.	Judges
Rookie Inspiration Award	Celebrates a rookie team's outstanding success in advancing respect and appreciation for engineering and engineers, both within their school, as well as in their community.	Judges
Safety Animation Award <i>*This is a pre-season award</i>	Recognizes the team that submits a short animated film that best promotes the current season's team safety focus.	UL
Team Spirit Award <i>Sponsored by Chrysler</i>	Celebrates extraordinary enthusiasm and spirit through exceptional partnership and teamwork furthering the objectives of FIRST.	Judges
Volunteer of the Year Award	Presented to an individual, business, or organization that consistently excels in their efforts with proven results in the areas of Impact, Leadership, Personal Commitment, Community and Historical Contributions.	Regional/District Planning Committee

Awards won: (Please list and add a brief statement for each award and event name)

Picture from Competitions:

SECTION 7: PERSONAL HIGHLIGHTS

Position(s) held on team:

List of Demonstrations, Community Service, 4-H Events/Activities Attended, field trips, lists of competitions, newspaper articles, tours, workshops, camps, etc. that you have participated in during this FRC Season.

Date	Activity	Club	4-H County	4-H District	# of times
0/0/00	4-H Kickoff event		X		1

**Add additional pages if necessary

SECTION 8: SEASON REVIEW

My favorite things in 4-H this year:

What I learned this FRC Season:

What challenges I faced this year and what I did about them:

A Proud Moment from this FRC Season:

What I would like to do next season:

SECTION 8: PROJECT ATTACHMENTS

PROJECT STORY

- Create a story of some of your experiences. Looking Back over the FIRST season and your year at 4-H. Think about the things you've learned and include how you might apply what you've learned to your life in the future.
- This story should not be no more than 2 pages, neatly written or typed (8 ½"x 11", one side only in 12 point double spaces font).

PROJECT PICTURES

- Attach photos (or you may provide drawings) of your project work throughout the year showing you and your project at the beginning, during the work being done, when completed, and at competitions. Don't forget to include pictures of you helping others in your citizenship activities too. Attach no more than three (3) pages (8 ½"x 11", one side only) of pictures to this report. Be sure to include a sentence about what you are doing in the picture.

PROJECT WORKSHEETS

- Attach any worksheets/paperwork that you have completed as evidence of your project accomplishments if applicable.
- Examples to include: strategy drawings, notes from build season, blogs you created for the team, etc.



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With the Help of 4-H Exploding Bacon Robotics Club, *FIRST* Robotics Competition Team 1902.