

Mission Statement- *FIRST*® Team 1741, Red Alert Robotics, will operate in the spirit of *FIRST*® in our minds and actions. We will operate in *FIRST*®'s image with quality, safety, Gracious Professionalism™, and respect; inspiring future generations to incorporate the core values of *FIRST*® into their lives.

Vision Statement - *FIRST*® Team 1741 is committed. We are committed to the ideas and beliefs that being a part of *FIRST* has instilled in us. *FIRST*® Team 1741 is committed to having a positive impact on the future of our students, our team, and our community. *FIRST*® has allowed us to grow as individuals and as a team through transferrable skills, hands-on experiences, and self-discovery.

Overview of *FIRST*® Team 1741- *FIRST*® Team 1741 Red Alert Robotics is **located** at Center Grove High School in Greenwood, Indiana, USA. For the past five years, since **our team began** in March of 2005, Red Alert has been lead by a group of Students, Mentors, Parents, and the School Corporation, focused on spreading the Mission of *FIRST*®, “To inspire young people to be science and technology leaders, by engaging them in exciting mentor-based programs that build science, engineering and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership” In 2005 Center Grove School Corporation noticed a void in their school activities. There was no club that supported the growth of science and technology. Summer Ehresman, the McCoy family, and the Baxter family played a huge role in the development of *FIRST*® Team 1741, Red Alert Robotics. They were our **founding mentors**. Summer Ehresman, a computer education teacher at Center Grove High School, helped the team tremendously by teaching how to use several different computer programs and by being our school sponsor. Linda McCoy and Sharon Baxter were not only the founding members of the Red Alert Robotics Parent Organization (an organization in which the goal is to support the activities of *FIRST*® Team 1741, Red Alert Robotics established in 2008) but they were also the founding members of the Non- Engineering side. Along with these mentors, Steve McCoy and Dwight Baxter brought to life the legacy of *FIRST*® Team 1741 Red Alert Robotics by founding the Engineering side of the team. Since the founding year of *FIRST*® Team 1741, Red Alert Robotics has steadily grown. As of the 2012 season, ***FIRST*® Team 1741, Red Alert Robotics, has grown** to about 30 students and 25 mentors.

What we do/Services Rendered –

Members

We work closely with our mentors to obtain a greater knowledge about STEM, gracious professionalism, coopertition, teamwork, our community, and ultimately ourselves. By doing this, *FIRST*® Team 1741 has helped students develop skills needed in everyday life. 100% of our students graduate high school and go onto college, 70% go on to participate in a *FIRST*® organization in college. Through our team, members have a sense of self-discovery by building their self confidence and interpersonal skills. They also learn valuable lessons including public speaking skills, general transferrable skills like designing, leadership, commitment, time management, budgeting and respect for fields in STEM. Upon graduation, Most of our students go into a science, technology, engineering, or math related field.

Community

- Parents night out— Free care service for kids with special needs
- *FIRST*® Community Tech Night— Free technology education and digital citizenship courses for our community.
- Lego Day— Free science and technology interest event to generate inspiration in engineering, *FIRST*®, FLL, and FRC
- FLL Tournament— Helped run and Judge Indy South Regional Qualifying Tournament
- Donations to Food Bank generated by Pay What You Can— Team and community donates food as admission to events
 - Lego Day
 - ToxCity Game Day
- FLL, FRC, and FTC team mentoring— Help established and sustain local Jr. FLL, FLL, FRC, and FTC teams
- Robots in the classroom— Students do robot demonstrations to reinforce curriculum
- Operation Christmas Child- Packed over 1300 shoe boxes for children all over the world
- Girl Scout Partnership- Fundraising and Gold award
- Vision Walk- Partnered with football team to raise funds for vision walk and helped run the event
- Homecoming- Design and build a float that represents schools theme and *FIRST*®
- Conner Prairie- Not only changing today, but changing tomorrow
- Project Linus— Craft blankets for displaced children

- Scouting at **FIRST**® Competitions— Working collaboratively with **FIRST**® community members to scout at regionals
- Science Fair— A safe place for pre- **FIRST**® aged children to learn about science and technology at local events
 - C.A.G.E. Match, Indy South Regional Qualifying Tournament, **FIRST**® Community Tech Night

Future Plans

- In One Year
 - Update Equipment for both the Engineering and Non Engineering side
 - Machining mentors to help design and produce parts
 - Incorporate classes- both during the off season and build season times
 - **FIRST**®, Inventor ,Programming, Design, Illustrator, 3DS Max, Photoshop, Photography/video, Marketing and Branding, Printing & Typography, Woodshop, Skills - Business, Public speaking
 - Start an FLL team in every local elementary school
 - Strengthen relationship between students and mentors
 - Do at least three fundraisers prior to the begging of the 2012-2013 school year
 - Better communication with Red Alert Robotics Parent Organization. Students more involved in the meeting to know the financial aspect of the team
 - Increase communication with both School, Local Newspapers and TV Stations
- In Three Years
 - Organize and run one Jr. FLL Event at a local school
 - Add two additional Major Corporate Sponsors
 - Have the majority of our cost to be supported by sponsors
 - Create enough funds to carry over into the next year
 - Increase attendance during off season
 - Make a yearly Science Carnival at local events
 - Establish one sustainable local High School **FIRST**® FRC team
 - Establish a robot camp at two local elementary schools
 - Make the “Robot in Classes”, in which we go to PLTW and science classes to present our robots, a yearly event
- In Five Years
 - Establish an effective system of recruiting new members during the summer months
 - Four additional Major Corporate sponsors
 - Establish three sustainable local High School **FIRST**® FRC teams
 - Three different Community tech nights with a 300 yearly participants
 - **FIRST**® robotics class as a part of High School Curriculum

Finances

- Grants
 - Rolls Royce— \$5,000, Yearly from Rolls Royce to cover one competition
 - Center Grove Education Foundation— \$2,000, Yearly Grant from the Center Grove Education Foundation to be applied toward build cost and team upkeep
 - Indiana Department of Workforce and Development— \$4,000 Yearly grant from the Indiana Department of Workforce and Development to be applied towards one competition
- Partnerships
 - Cummins-\$10,000 applied towards build cost and competition
 - Southside Pediatrics, INC.— \$1,000 Applied toward build cost and team upkeep
 - Piezo Technologies— \$500 Applied to our outreach
 - Ray Skillman Auto Group— \$500 Applied toward build cost and team upkeep
 - Colors. INC— Donates the anodizing of our robot each year
 - Water Jet Cutting of Indianapolis— Uses a water jet cutter to customize precision parts for our robot
 - Eid Co.— \$150 Applied toward build cost and team upkeep
 - Center Grove High School— 6 laptops, Control and Non- Engineering Room, wood and machine shop, design and CAD room