



THE RAVONICS REVOLUTION TEAM 1710

"If at *FIRST* you don't succeed, you have six weeks to get it right."

Volume 5, Issue 3

Build Season 2010

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Breakaway into science and technology!

Soccer, the world's most international sport, brings a sense of exhilaration to the audience that has been completely unmatched, until this build season. *Breakaway*, the 2010 *FIRST* Robotics challenge, brings the same excitement once found only in what the world knows as fútbol. Using conventional soccer balls, it is not difficult to see how this game relates to genuine soccer. There is an aggressor scoring goals, a forward kicking the ball up to be scored, and a defender protecting the goal from other aggressors. But of course, with *FIRST* Robotics, there are guaranteed to be some twists.

This year's playing field, considerably different from fields of the past, throws in some twists of its own. Two bumps spread across its width, splitting the field into three even sections: the Blue Zone, Midfield, and Red Zone.

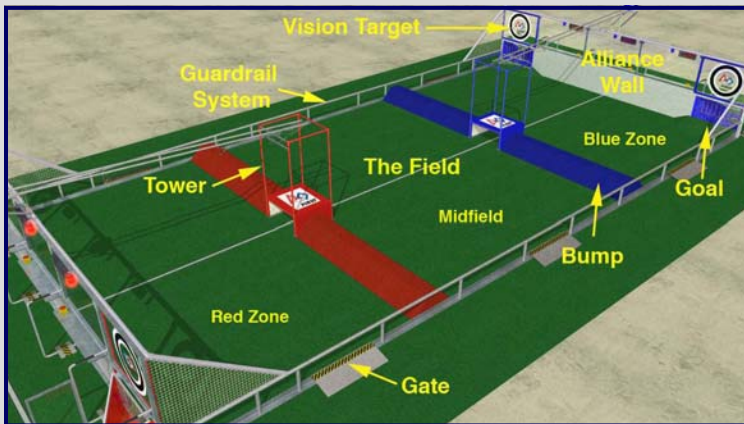
Centered on these bumps is a platform with an alliance tower extending upwards, on which robots



can hang for extra points at the end of the match. Robots can travel from one section to another by using tunnels under the platforms or by traversing

ance tower at the end is worth two points, and every robot hanging off other alliance robots is worth three points. During the first fifteen seconds of the game, the only points that can be scored are soccer goals. Throughout the game, human players constantly recycle balls back into play. In the final twenty seconds, the game enters finale mode, allowing robots to expand into a configuration to hang from the towers.

To keep tabs on the robot design and overall pro-



the bumps.

In *Breakaway*, scores are simple: every ball in a goal is worth one point, every robot hanging off its alli-

gress of Team 1710, check out our website at www.ravonics.net for regular updates.

-Tyler Howard

“We on Team 1710 are one of only six teams nationally chosen to pilot this program.”

GREEN TEAM



Just this year, *FIRST* has created a new idea for teams wanting to be green. It encourages teams to perform energy audit on local businesses, spreading environmental awareness. Energy audits seek out energy inefficient practices being in a company’s facility. They then prepare and present a report to the business based on the information they found. These energy audits can act as fundraisers, they can attract new sponsors, or they can be a service to existing sponsors.

1710 are one of only about six teams nationally chosen to pilot this program.

professionals. These skills will stick with us through-



Team 1710 is a *FIRST* En-

Our Green Team spent the entirety of pre-Build Season practicing for our first energy audit. We gained valuable information from all this work. It taught us to be more organized, to work more efficiently, more professionally, and to work as a team. Our Green Team also learned

out our lives and will help us be prepared for any careers we decide to take.

The idea of green teams is still new, and we are just trailblazers for the future. We make the mistakes so that future green teams do not need to. Working kinks out of the system, we make it easier for new teams to create green teams of their own. With any luck, our first-hand experiences will encourage other teams to take a similar initiative and make *FIRST* a greener organization.



ergy Audit pilot team, a pioneer in *FIRST*’s green initiative. We on Team

valuable real world experience in contacting businesses and speaking with

-Michael Zeets

FUNDRAISING UPDATE

Team 1710 has been very successful with fundraisers this year. We try our best to raise as much money as possible ourselves.

Johnny's Tavern has partnered with the team to host "Dine N Donate" events at their Olathe location. Customers enjoy a great meal while we receive 20% of their bill. We have completed a total of four Dine N Donates so far, making over \$700.

The team hosted their first annual Vex Challenge in November and was met with

an overwhelming response, earning about \$2000. It gave 50 4-6 graders a chance to build their own robots. Because of the enthusiasm of the students, we plan to host a similar, more intensive camp over the summer.

We also held a pancake breakfast at Applebee's and raised about \$2100. With team members playing the role of employees, we served hundreds of hungry friends, family members, and sponsors.

Olathe Ford partnered with the team to sponsor a test

drive fundraiser. For every vehicle friends and family drove, Team 1710 earned \$10.

We held another fundraiser during the Valentines week. We sold carnations before school and during lunch. We sold about 600 carnations overall.

We look forward to the success of our upcoming fundraisers, including the Bowl-A-Thon in early March.

-Ally Parfet



SPONSOR SPOTLIGHT: Chris Coad

Every year our team is required to come up with an entirely new design for our robot. While past robots can be scrapped for parts, we

will make us unstoppable on the playing field. To build it, however, we need specific parts custom manufactured, so we reached out for assis-

your local Home Depot, this is a huge help to our team. As of now, between the cost of parts and labor, he has donated over five thousand dollars of manufactured swerve parts.

Our team as a whole would like to extend our greatest thanks and gratitude towards Chris Coad. He has done so much for us, offering invaluable resources to build the best robot on the field.

-Lauren Bickford



decided this year to continue with the development of swerve drive. Swerve is an omnidirectional drive system, enabling side to side movement as well as forward and backward, capabilities that

tance from the professional world.

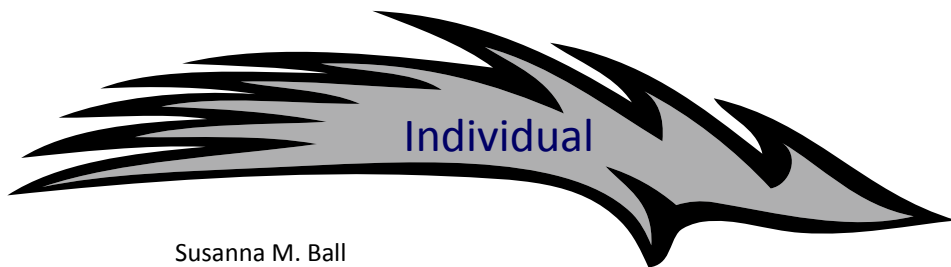
Chris Coad is just the man for the job. As an employee of Ultratech, Inc. Coad is a parts machinist. Because the parts we need can't be found at

"Our team as a whole would like to extend our greatest thanks and gratitude towards Chris Coad."

BUILD SEASON 2010



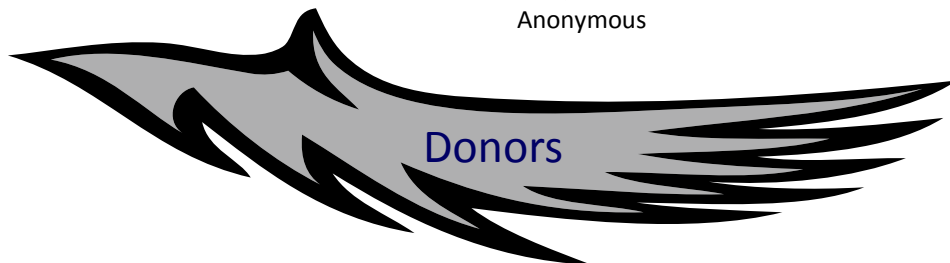
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Mr. & Mrs. John Parfet
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Donors

The Climb To Success

Goal:
\$21,000

\$18,000
Level 7

\$16,000
Level 6

\$13,000
Level 5

\$10,000
Level 4
Completed

\$8,000
Level 3
Completed

\$5,000
Level 2
Completed

\$3,000
Level 1
Completed



MARCH 2010

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|---|------------------|--|--------|----------|
| | 1 6:30pm Team Meeting | 2 6-8:30pm CPR/First Aid Training | 3 | 4 3:15pm Team Meeting Greater Kansas City Regional Competition | 5 | 6 |
| 7 | 8 6:30pm Team Meeting | 9 | 10 | 11 3:15pm Meeting | 12 | 13 |
| 14 | 15 Spring Break (No meetings) | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 6:30pm Team Meeting; no school | 23 | 24 Travel Day | 25 Oklahoma Regional Competition | 26 | 27 |
| 28 | 29 6:30pm Team Meeting (only if we qualify for Championship) | 30 | 31 | | | |

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