



Chairman's Award Submission 2004

We are Team 74 – The Holland High School FIRST Robotics Team

Haworth was the sole sponsor for the Holland High School FIRST Robotics Team since our formation in 1994 until Magna Donnelly came aboard as a co-sponsor in 2002. Team 74 was the original FIRST Team in West Michigan. We have always welcomed students from other schools that could not support a team of their own. Our team includes students from Holland High School and Black River High School. FIRST has provided the opportunity and Haworth/Magna Donnelly have given us the resources to build a winning team and to have a positive affect on the world around us. Together we focus our energies on improving the human condition in our community and on our society as a whole.

Our Values:

1. We have the passion for learning and applying our knowledge.
2. We have an attitude of Gratitude. Participation on this FIRST Team is a gift from our sponsors, our volunteers and every team member who participates.
3. We value Teamwork and Diversity – Our team members come from many diverse backgrounds. Each member brings a unique perspective to every challenge.
4. We value Good Sportsmanship, and we practice Gracious Professionalism.
5. We show Enthusiastic Team Spirit, and we celebrate our victories as well as the victories of others.

The members of Team 74 are grateful and proud to be sponsored by Haworth and Magna Donnelly. We are also proud to represent Holland High School and the great City of Holland, Michigan, in the FIRST Robotics Competition!



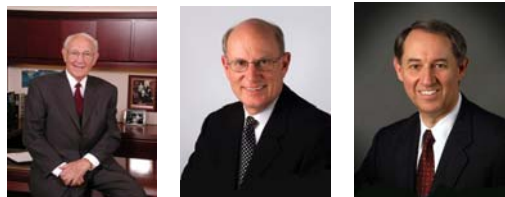
Developing Partnerships

As we progress through our tenth season, we understand more than ever about people and relationships. Team 74 is continuously building, strengthening and maintaining our partnerships. One corporate sponsor, two teacher advisors, five adult mentors, and many local businesses and families have been part of Team 74 since its inception in the fall of 1994. Upon that solid foundation Team 74 was able to add a second corporate sponsor in 2002 with four additional mentors to ensure our future success.

ten years ago, our team received little recognition. We now have a two-page spread in the high school yearbook and our trophies are prominently displayed. Our school administration attends the regional competitions and cheers on our team. Our team is publicly recognized by the school board each year, and the students receive a certificate of appreciation for their contributions to the team and community. Now our whole school and community know about our team.

Sponsor Support

Our sponsors provide us with funding, mentors and support. Many of these partnerships begin with presentations by team members who introduce the FIRST mission and our team's fundamental principles.



Haworth officers: (left to right) Mr. G. W. Haworth (Founding Chairman), Mr. Richard Haworth (Chairman), and Mr. Robert Krasa (President and CEO).



Magna Donnelly Officer:
Mr. Carlos Mazzorin (CEO)

Career Exploration

Our career exploration program provides an opportunity for students to interview with a professional from Haworth or Magna Donnelly who can show the student what the job is actually like. Students can spend an hour or a day, either interviewing or job shadowing, and learning the details of the job. We are currently expanding the program to include professionals from career fields outside of Haworth and Magna Donnelly.

Our partnership with Holland High School has grown since the formation of our team. When we began



School Officials: (left to right) Mr. Frank Garcia (principal), Mr. Ed Garcia (Earth Science Teacher) Not Pictured: Marsha Bishop (Superintendent)

School Statement:

Holland Public Schools, in partnership with home and community, believes we must provide all learners with the knowledge and skills for continual growth and success as students within the school setting and as adults in society. With our focus on the future, we will equip and motivate our students to become lifelong learners. We will know we are accomplishing our mission when all students are . . .

- Effective Communicators
- Complex Thinkers
- Quality Producers
- Responsible Citizens
- Self-Directed Learners

Team Building

Being an established FIRST team is a year-round effort and without taking time to know one another better and develop unity, building upon previous success is an uphill battle.

*Team Kick-off
2004*





Making an Impact

Team 74 has always been one of high expectations and vast improvement. The Founder of Haworth, Inc., a former teacher from Holland High School, emphasizes the importance of a good education and strongly encourages the students to go onto college. At 92 years, Mr. Haworth still comes to work three days a week and loves to interact with the students on the team.

We owe much of our success to all of the parents who brought us food to fuel our imaginations and inspire us to go the extra mile in every aspect of this year's competition. Parental support is a vital aspect of the team.

Holland FIRST Robotics is comprised of 26 students and 17 adults. The adults represent our two sponsors, Haworth and Magna Donnelly, as well as parents, the community, and the school.

Whether it is through presenting our robot at corporate picnics, conferences, or parades, our team enjoys sharing our knowledge with the community. This raises awareness in our community and encourages our team members to share the FIRST experience with the others.

The engineers on Team 74 teach the students the principles of engineering, including writing, prototyping, actual building, and programming. This is a way that the engineers are able to recycle their valuable knowledge. It is also a way for our team to impact the engineers with their energy and creativity.

The impact that we, Team 74, have on our school is increasing at an enormous rate. Something we never thought possible was to have an hour during the school day where we would be able to study about FIRST Robotics. We are in our tenth year of being a robotics team; for the past six years, we have been featured in our school yearbook as a club instead of an "activity."

Participating on Team 74, students are able to achieve skills and knowledge desired for their future. There are many opportunities for the students to gain these skills because they learn from the stars of the engineering world and use cutting-edge technology. Talking together, working as a team and providing leadership are a few ways that the team impacts the students on a greater scale.

Academics

FIRST has inspired all of the participating students to excel in academics and to look towards the future. To

attend competitions we are required to pass all our classes. If our grades don't meet the minimum standards, our coaches will try to help us bring our grades up. We are also looking at engineering, animation, and journalism as future vocations.

A Tradition of Success

The success that we have realized is a direct reflection of the evolution of our team, as we become a more efficient and dynamic group. One of the most valuable achievements of our team is that we have consistently been able to push ourselves to new levels each year.

- 1998 – Regional Motorola Quality Award
- 2001 – Regional Motorola Quality Award
West Michigan Regional
- 2001 – Regional Champion
Great Lakes Regional
- 2001 – Regional 2nd Place
West Michigan Regional
- 2002 – Regional Chairman's Award
West Michigan Regional
- 2003 – Regional Animation Awards
Great Lakes Regional
West Michigan Regional
Midwest Regional
- 2003 – Regional Motorola Quality Award
West Michigan Regional
- 2003 – #6 Seed, West Michigan Regional
- 2003 – #1 Seed Galileo Div., Championship



Sharing the Experience

Previously, our robotics team played an active role in inspiring middle school students to look into what FIRST has to offer and preparing students for our FIRST team in the future. This past year, members of our team assisted the East Middle School team in tutoring for the FLL competition.



Spreading the Message Learning Experience

Several years ago, Team 74 purchased billboards to promote the West Michigan Robotics Competition. This local, post-national event attracted dozens of teams from the region to FIRST in West Michigan. This event prepared West Michigan for the official West Michigan FIRST Regional Competition.

Local Parades/Promotions

Another way we promote FIRST is to enter a float in local parades. We entered a float in the annual Tulip Time parade that exhibits our robot and our team. The Tulip Time Celebration attracts close to a million visitors to Holland, as well as everyone who lives here. This is a great opportunity to put the image of FIRST in front of many people from around the country, as well as



from foreign countries. In addition to the annual Tulip Time Festival, we enter our float into the Grand Haven U.S. Coast Guard Parade, which also attracts thousands to the West Michigan area. Haworth has also used FIRST in their sales materials that are distributed throughout the United States, Mexico, and Canada.

Community Support

Holland FIRST Robotics team first and foremost takes pride in the work of our team. Community service is a requirement to go to any of the competitions. The first project that was organized was Tulip Bulb planting on Windmill Island for the 75th anniversary of Tulip Time.

One of the many projects that Team 74 organized was at Rest Haven, a care center for elderly people.



Some members of the team organized a movie and handed out popcorn. Team members also helped stuff envelopes and hand out brochures at doctors' offices. The team has sewn bears for organizations to give to children in crisis.

Alumni:

The Impact of FIRST leads to bright futures in Science and Technology.

Our team encourages members to reap the benefits of participating in FIRST Robotics through summer internships, leadership programs, and employment that would otherwise not be available to them. Upon graduating Holland High School, Rick Slater, one of our alumni, went to Michigan Tech to further explore the field of engineering. Jim Bench, another one of our alumni, also took that path. Rick currently has an internship with our co-sponsor. However, Jim blazed a different trail that led him to work for a company that designs and manufactures environmental test chambers.

Two female students from our 2002 year are pursuing careers in Engineering and Aerospace Engineering in college. Two students that graduated last year came back this year to participate with the team as leaders. They are also pursuing Engineering Careers.

Challenges

Over the years, Team 74 has faced many challenges. Our motto is, "Every problem has a solution." This year was no different. Our team is celebrating its tenth season. Like many before it has presented many challenges. One, however, was unexpected.

This past year, our high school teacher needed to take a leave of absence from the team. After talking to school administrators and explaining the importance of having a teacher from the high school on the team for students to talk to, another teacher volunteered.

One of our team's biggest challenges was again being losing meeting and building facilities and the resource that went along with it at our sponsor's company. We turned this challenge into a positive, which resulted in the use of a larger warehouse type facility, which we can now call our permanent home. This taught us to look for opportunity behind every challenge.