penfield Patron Book

Penfield-Harris
FURSJ Robotics Jeam



2005-2006



FIRST



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info@usfirst.org

For Inspiration and Recognition of Science and Technology

The Competition

What is it?

The FIRST Foundation Vision - "At FIRST, we see a world where science and technology are celebrated, where kids think science is cool and dream of becoming science and technology heroes."

The FIRST Competition - is a vehicle for achieving the FIRST Foundation Vision.

The mission of the FIRST Robotics Competition is to inspire curiosity and create interest in science and mathematics among today's youth by immersing them in the world of engineering and showing the important connection between classroom lesions and real-world applications. To date FIRST is best known for its annual robotic competition in which corporations and universities team up with high schools in a high tech sporting event which pits gladiator robots against each other. They are designed in just six weeks by teams of students, corporate engineers and other corporate professionals. The responsibility of the corporations in the competition is not to teach science and technology, but rather to inspire kids to pursue careers in these fields. AND ITS FUN!!!

What are the Goals of the Program?

To expose middle and high school students to engineers and the engineering profession.

Most students this age have major misconceptions about what engineers are like and what engineers do on a daily basis. Our goal is to introduce the students to engineers and show them that what they do is not only vital to our country, but can also be fun.

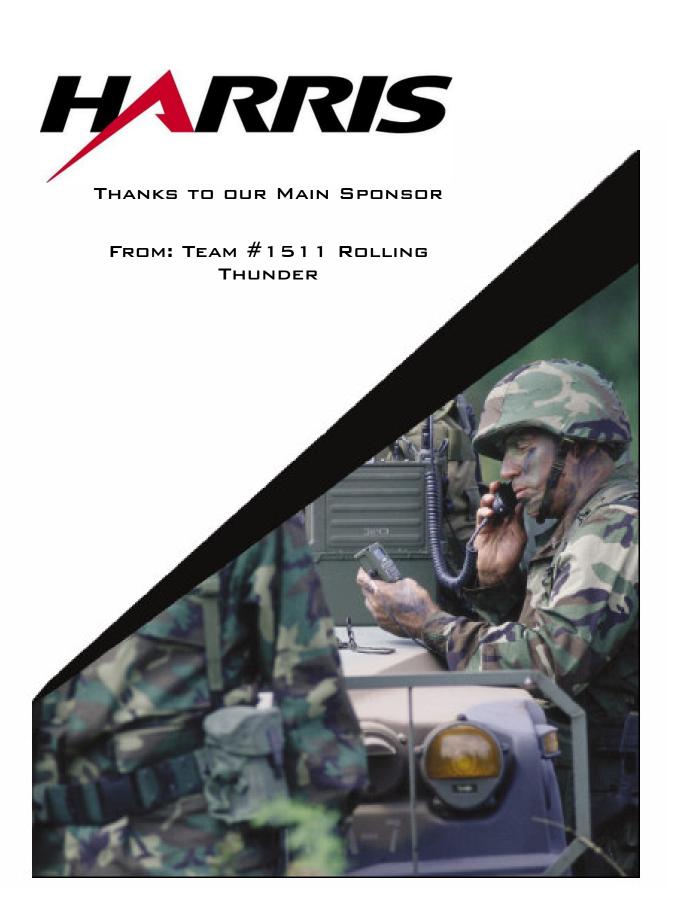
To create an environment that makes "heroes" out of engineers and scientists.

Most students look to professional sports heroes as role models. These people have little to do with our standard of living. The real value add in our society comes from scientist and engineers. The environment this program creates incorporates many of the same appealing aspects of the world of sports, such as: finite winners/losers, referees, practice, and the game itself. The result is excitement for the field of engineering.

To demonstrate a company's engineering capability, resources and commitment.

FIRST provides a forum for a participating company to "give back" to the community, to highlight the creativity and energy of its employees and to showcase its technological prowess in a very visible form.





Team 1511 Rolling Thunder



Marris Corporation

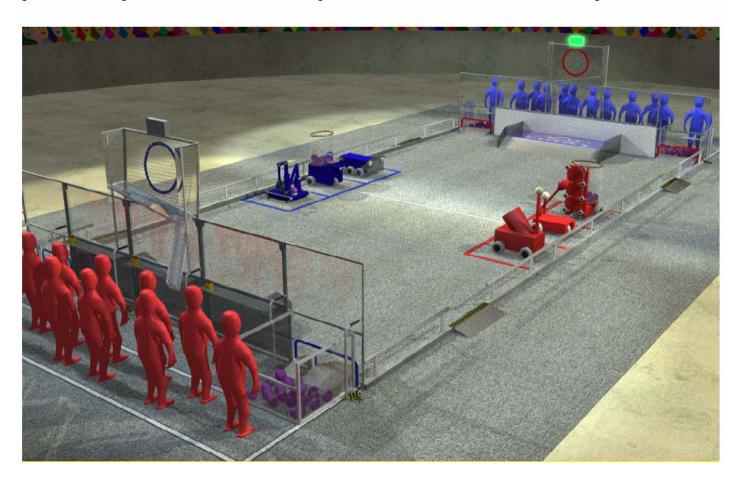
Jenfield High School

Team 1511 Rolling Thunder Team Members

Students	Kyle Klofstad	Annie Vongnaphone	Harris Mentors	Mentors	Teacher &
Alex Bayley	Lorien Lee	Dillon Weerasinghe	Adzim Auzar	Jeff Downs	Community
Jim Bossert	Rika Lee	Eric Wiegandt	Eric Averill	Eric Eckhardt	Eric Brewer
Graeme Buckley	Steve Manzoni	Alex Wolf	Gregory Campbell	David Eckler	Andrea Billin
Adam Burns	Mark Mascadri	Steven Wolf	Amy Downs	Nancy Gingold	Lauren Burns
Jessica Butler	Jackie Nielsen	Rick Wood	Karen Fellows	Jim Harney	Mike Francis
Ashley Cheney	Katie Nielsen	Randy Zingo	Douglas Hitchcock	Lee Hoag	Ann Francis
Richard Doell	Martin O'Hern	Jesus Lopez	Larry Lewis Jr	Jeni Lee	Penney Goodman
Mike Francis	Alex Peach	Robert Jackson	Michael O'Brien	Mark Manzoni	Michelle Harlan
Josh Goodman	Ricky Peach		Kimberly O'Toole	Donald Murphy	Shelley O'Hern
Bethany Griswold	Josh Ranieri		Eric Peach	Greg Needle	Shanti Sharma
Andrew Harlan	Rajeev Sharma		Joshua Schmiedlin	Michael Wolf	Sharon Wolf
Mike Harlan	Melanie Silvas		Gary Schwenck	Richard Butts	
Patrick Harney	Ian Simpson				
Andrew Homan	Cristian Smith				
Keith Kearns	Collin Sowinski				

THE GAME

AIM HIGH is a game played on a field as illustrated in the figure below. Two alliances, one red and one blue, composed of three teams each, compete in each match. The object of the game is to attain a higher score than your opponent alliance by scoring balls in the center or corner goals, and/or by having ROBOTs on your platform or ramp at the end of the match. The point values for each of those actions are explained below.



GAME OVERVIEW- A match is 2 minutes and 10 seconds long. An AUTONOMOUS PERIOD starts the match, which lasts 10 seconds. Following AUTONOMOUS PERIOD, there are 2 minutes of tele-operated game play, which are broken up into three 40-second periods. There may be a short pause between AUTONOMOUS PERIOD and the start of the tele-operated periods as the players stations are activated. The SECOND PERIOD and THIRD PERIOD are offense/defense, where only one ALLIANCE can score. During the FINAL PERIOD, both ALLIANCEs can score.

AUTONOMOUS PERIOD - During AUTONOMOUS PERIOD both ALLIANCEs may play offense or defense, and all goals are active for scoring. During AUTONOMOUS PERIOD the ROBOTs react only to sensor inputs and commands programmed into the onboard control system. Human control of the ROBOT is not permitted at this time. All ROBOT safety rules are still applicable during AUTONOMOUS PERIOD.

SECOND PERIOD - The ALLIANCE with the highest score at the end of AUTONOMOUS PERIOD will play on defense during the SECOND PERIOD. In the event of a tie at the end of AUTONOMOUS PERIOD, the ALLIANCE playing on defense during SECOND PERIOD will be chosen at random. Any balls scored in the defensive ALLIANCE's goals (opposite their DRIVER's station) during this period will not be counted

THIRD PERIOD - The ALLIANCE that was on offense for the SECOND PERIOD will play on defense-during the THIRD PERIOD. Any balls scored in the defensive ALLIANCE's goals during this time will not be counted.

FINAL PERIOD - Both ALLIANCEs may play offense or defense during the FINAL PERIOD. Balls scored in all goals will be counted.

Scoring—In order for a ball to score, it must enter the goal and exit via the exit chute. A ball that bounces out of the goal is not scored. Once a ball is scored for a particular ALLIANCE, it cannot score again until it is entered onto the field by the opposing ALLIANCE's HUMAN PLAYER.

Point Values:

- **Center Goal** A ball scored in the center goal is worth 3 points for the ALLIANCE whose DRIVER's station is opposite the goal, when that ALLIANCE is designated as playing offense.
- **Corner Goal** A ball scored in the either of the corner goals is worth 1 point for the ALLIANCE whose DRIVER's station is opposite the goal, when that ALLIANCE is designated as playing offense.
- **AUTONOMOUS PERIOD Bonus** The ALLIANCE that has the highest point total at the end of AUTONOMOUS PERIOD will receive a 10 point bonus.
- ROBOTs on ALLIANCE PLATFORMs ROBOTs score points if they are entirely on an ALLIANCE PLATFORM when they come to rest at the end of the match. ALLIANCEs receive points for ROBOTs belonging to either ALLIANCE that are on the ALLIANCE PLATFORM closest to the ALLIANCE's DRIVER station. If any part of the ROBOT is touching the carpet, the ROBOT is not considered on the platform. If a ROBOT is entirely on an ALLIANCE PLATFORM and is touching another ROBOT that is not entirely on the ALLIANCE PLATFORM, it still is considered on the platform. One ROBOT on a platform or ramp is worth 5 points, two ROBOTs are worth 10 points, 3 or more ROBOTs are worth 25 points.



Chairmans Award Submission

Briefly describe the impact of the FIRST program on team participants

Over the past two years, FIRST has impacted each of us in many ways. After an incredible rookie year, we set our sights on loftier challenges including our self-imposed goal of "151 thunderbolts" in the form of community outreach programs. So, whether it is building a robot or doing a comunity service project, the Rolling Thunder team has been impacted and driven by the guiding principles of FIRST, especially by embracing other rookie teams and exemplifying "gracious professionalism".

Examples of role model characteristics for other teams to emulate.

We are very proud of the fact that our team will continue to embrace other rookie teams as exemplified by our hosting the "all-rookie meet & greet" events at the regionals we'll be attending as well as at the championship. Our team has also put great emphasis on creating opportunities for Rochester area FIRST teams to interact and work together, and inspiring youth in our 3 FLL teams. Additionally our team handbook outlines the important goals and standards for our team members to set.

Describe the impact of the FIRST program on your team and community

After the 2005 rookie season, the word of FIRST and the success of the Rolling Thunder team spread quickly through the community. During the off-season, we have completed many demonstrations and community service projects especially in the area of providing early education of robotics to younger students. Our robotics club membership this year has almost doubled in size with a great mixture of students. Our patron drive continues to involve and inform local area businesses 10 of our progress.

Teams innovative methods to spread the FIRST message.

When we started the idea of reaching "151 thunderbolts", we never thought that having such a goal would cause such a stir. We have spread the message of FIRST by a steady presence in our camouflage uniforms, our patron drive and our thunderbolt demonstrations and community service activities. The events we have sponsored (Rochester Rally, Ra-Cha-Cha Ruckus, FLL Rumble) have all provided a lot of coverage by the local TV media and brought Rochester Area teams together.

Describe the strength of your partnership.

Harris Corp. has offered funding to support our travel, machining needs and, most importantly, the mentors to help out our team. The school is providing facilities, time and organization for the team. The parents are involved and bring us dinners, even the janitors are involved and love us. Just about everyone is curious about our project. Our mentors have come to know us well through the preseason activities, and are now on open lines of communication for anything that the team needs.

Teams communication methods and results.

Both the students and the mentors favor online tools. We setup a web site and forum for open dialog. We have email distribution lists for announcements and telephone trees. Each class elected a leader, and the functional teams all have leaders. So, contacting each other is an easy process to follow. Although the web site took a while for us to get used to, now the mentors and students visit the forum 24/7 for brainstorming and passing ideas.

Other matters of interest to the FIRST judges, if any.

We have led the way in our region, becoming the host team for many events including two inter-team rallys prior to ship date, sponsorship of three FLL teams, and oversight of several off-season events. We also are using some advanced optical forms scanning software to manage our team time cards and scouting reports this year. Additionally our team has tested out some advanced engineering concepts in sensor design and implementation.



Rolling Thunder

Penfield High School





2006 Chairman's Award Essay

"A 'New Breed' of FIRST"

Since the beginning of Team 1511 Rolling Thunder, there has been a constant drive to do more. This team does not only aim high, they achieve high. Within the first year of participation, team 1511 grew and accomplished more than they ever expected. They are the epitome of a 'new breed' of FIRST. This 'new breed' goes above and beyond rookie year expectations and establishes themselves as leaders. Now, as a second year team, there is a desire to aim higher and lead stronger.

Team History

Established in the Penfield community in mid 2004, the mentors and students on team 1511 were unsure of what to expect. The students displayed interest and enthusiasm in this unique opportunity. As a rookie team, the team attended three regional competitions and received 6 awards. Foremost among these were, the Rookie All-star award at the Finger Lakes Regional and Regional Champions at the Greater Toronto Regional, both of which qualified the team for the Championship Event. The team traveled to the Event in April of 2005 and was thrilled to receive the 2005 International Rookie All-Star title.

Team Mission and Goals

- "Creating opportunities for the future by providing students with FIRST hand robotics expertise with local engineers; thus instilling confidence to succeed in a rapidly changing world."
- -Advance respect and appreciation for engineering, science and technology.
- -Develop within the team a character of honesty, integrity, and sensitivity.
- -Help and encourage everyone with an attitude of cooperation, collaboration, and concern for others, including competitors.
- -Promote important skills including leadership, teamwork, responsibility, accountability, academic performance, community involvement, and management.

FIRST- Bringing Teams Together

As one of our goals is to bring the Rochester area FIRST teams together, we have developed activities that strengthen inter-team relationships.

Last year we organized and hosted the "Rochester Rally," a pre-ship event for the 16 Rochester area teams to experience the game of Triple Play. This year we hosted "Rochester Rally II" in which the area teams tested their robots in this years game, AIM High.

Back in Atlanta we hosted an "All-Rookie Meet and Greet." At this popular event, we handed out folders with information about all the rookie teams at the event, things to do in Atlanta, and how to start a FIRST Lego League team. We will repeat the event this year at the Championships, and the two Regionals we attend.

This past August, we pulled together the Rochester area teams to organize an off season event. The off season committee was chaired by our team leader, and was composed of 15 members, 5 of which were from team 1511 including 2 students. The "Rah Cha Ruckus" took place in October of 2005 and proved to be a successful event. 15 teams including 1 Michigan team and 2 Rochester Rookie teams attended this event. Both first-year teams made it to the final match; everyone was very excited to see such an outcome outcome from teams that were unfamiliar with FIRST and the robots they controlled. The Ruckus helped to inspire the new students, and brought more members of various FIRST teams together.

We participated at "Bash at The Beach" off season competition in Old Lyme, Connecticut. Many of the new students on our team found this event to be inspiring, full of energy and new experiences. It was also a very good bonding experience for the team. We were excited to come in first place with team 237 and team 181, something that we were not expecting.

FIRST- Building Teams

Team 1511 has aimed to inspire younger students by starting 3 Lego League teams, 2 coming from an inner city school. At the Rochester Event, 12 members from team 1511 volunteered their time and held a demo to spark the Lego League student's interest in FIRST Robotics. It was a very rewarding experience seeing the excitement in the Lego league teams and how contagious it was for both students and parents. We will be hosting the "Rochester Rumble" on March 18th, giving the local Lego League teams another chance to play Ocean Odyssey.

This past year we assisted a rookie team, Rush-Henrietta Team 1930 by giving them information on how to run their team based off of our rookie year. We have provided guidance to several rookie teams from D.C. to Michigan. We are helping to start a team for the 2007 season in Lima, NY. We are always eager to give our assistance to other rookie teams.

As mentioned in an article from channel 13, when some students from Edison Tech almost didn't make it in this year's competition after losing their sponsor, students from Penfield High School were glad to adopt them as part of the team. 1511 is helping Edison Tech regain their sponsorship for 2007.

2006 Chairman's Award Essay

Thunder in the Community

One of team 1511's priorities is spreading community awareness. Seeing how we were able to impact our community last year, we set the immense goal to achieve 151 Thunderbolts. "Thunderbolts" are community activities designed to spread the word of FIRST, and to help make our community a better place.

The Patron Book

Our patron book serves as a fundraiser and a way to get the Penfield community involved in and aware of FIRST. Through this we hope to build lasting relationships with the businesses of our community. This year we have spoken with 200 businesses and raised over \$8,000 in patron sponsorship.

Community Events

The team is constantly organizing and participating in community events. We hold at least 2 carwashes annually in which pamphlets are handed out to explain what FIRST is, and information about the team. We have held over 20 demonstrations for various groups, including the local boy scouts, children at the Rochester Museum and Science Center, and for Harris to inform the company of our progress and continue our strong relationship. We have organized multiple canned food drives for 2 of the local food shelves, participated in the local 'Feet for Food' walk, and raised over \$1,000 for Hurricane Katrina Relief. We have done other activities, including sapling distribution, RIT ROCS (Reaching Out for Community Service) Day, gift wrapping, Toys for Tots, and bell ringing for the Salvation Army.

We were highlighted on the local news channel in October, along with another segment on our three FLL teams in December. This year three local news stations covered the Rochester Rally II. We have found that the community enjoys our presence and appreciates our achievements as evident by the many compliments and thanks we receive for our help and accomplishments.

The Team

The members of team 1511 have held a strong bond throughout their experiences as a team. This bond is what has helped us to exceed our goals.

After the 2005 season we were sad to let our 4 senior members go. They brought many qualities to the team and everyone looked up to them. We are very proud to know that FIRST has inspired these students to pursue college majors in mechanical engineering, computer engineering, computer science and business. These are all very important aspects of FIRST and we are already seeing that our other members are following in their footsteps.

FIRST has opened doors for our graduating members this year. Two of our juniors, plan to attend the Clarkson School at Clarkson University next year to study engineering, and a third junior, will graduate early and attend college to study business. The three seniors will go on to engineering and psychology.

Throughout the summer we had weekly team meetings, working on community service activities, team building and fundraising. This time was also used to develop recruiting strategies and layout the preseason schedule. Come September, our efforts paid off. The team recruited 19 students and 6 mentors bringing our totals to 39 students and 15 mentors, making our team stronger than ever.

This team owes a lot of our success to our leadership group that has invested extra time and effort into making us thrive. Our members take leadership very seriously. Over the summer our team published a handbook that is not only a guide for our members to follow but also an infrastructure for other teams to emulate. Within this document we established requirements to help make the members more rounded, and set team expectations.

This year we developed a series of team building activities that strengthened our partnership with our mentors. One such session was a rotation night, where students could choose from different topics that interested them and attend activities from these areas, such as programming, electrical, marketing, etc. This activity was successful in sparking student's interest in new areas. The basic fundamentals of the design process brought to us by the Project Lead the Way curriculum at PHS, including problem identification, conceptualization, refinement of preliminary ideas, design analysis, development, implementation, optimization, and presentation have proved to be useful in making our team more successful and efficient.

In addition to our weekly team meetings, during the preseason we divided into sub-teams based on our interests and abilities. These 10 branches specialized in areas such as spirit, programming, strategy-drive, mechanical, electrical, website and animation. Mentors from these fields worked with us by training us in their area of expertise. The sub-teams worked on many pre-season activities including examining several types or sensors, different drive trains, building preseason strategy and scouting guides, and team spirit.

The desire of team 1511 to aim high has been shown in all they have achieved. The members of this team have grown immensely over the past year thanks to FIRST. This team knows what FIRST is about, not winning nor losing, not even how you play the game, it is about the inspiration and leadership, and this is what makes Team 1511 a 'new breed' of FIRST.



Rol

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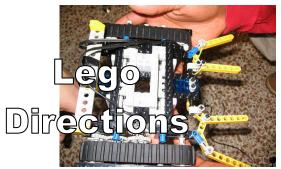






Team 1511











Car Wash



Teambuilding





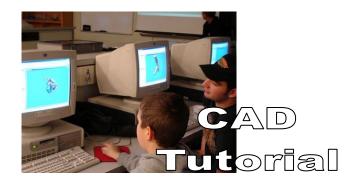
Preseason Activities



Egg Drop









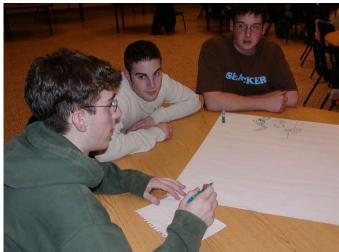




Build Season Pages

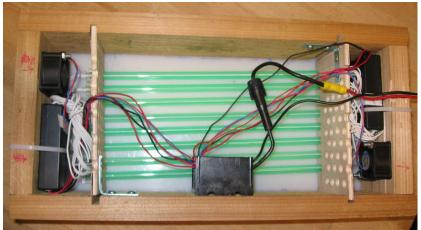


















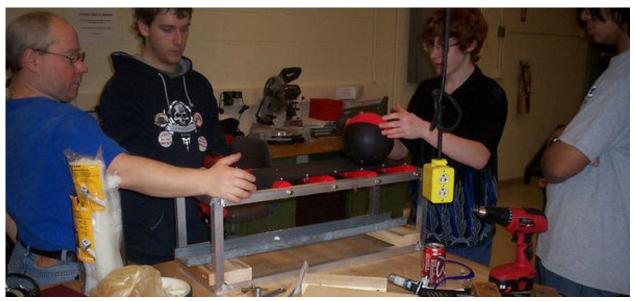








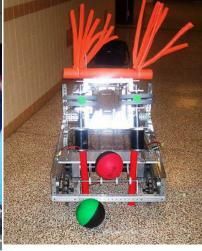
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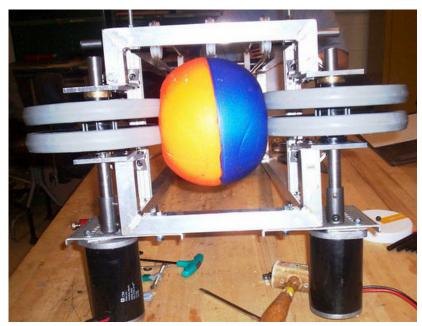






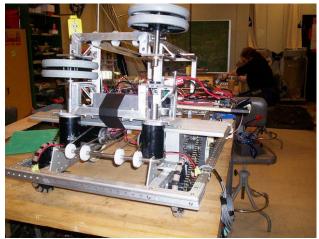
















Rochester Rally 2 Penfield, MM

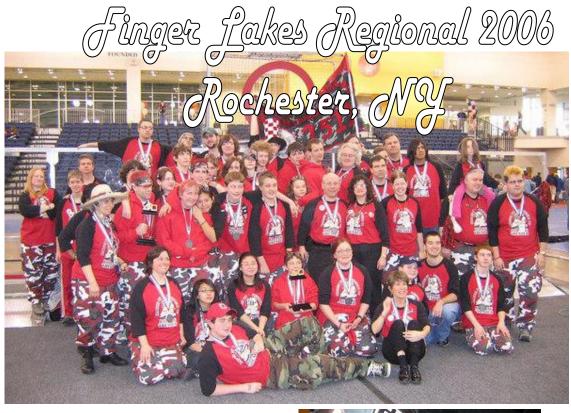






















2006 Regional Quarter Finalists 2006 Engineering Inpiration Award











2006 Regional Quarter Finalists 2006 Imagery Award













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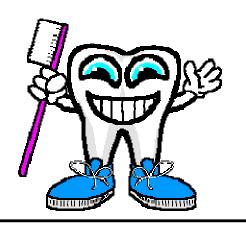


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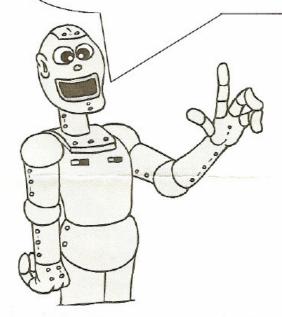
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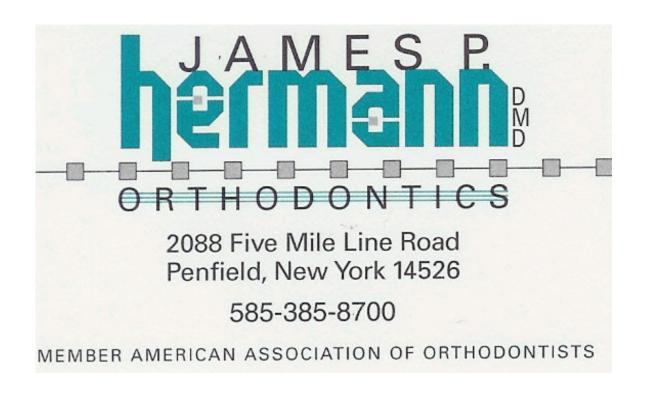


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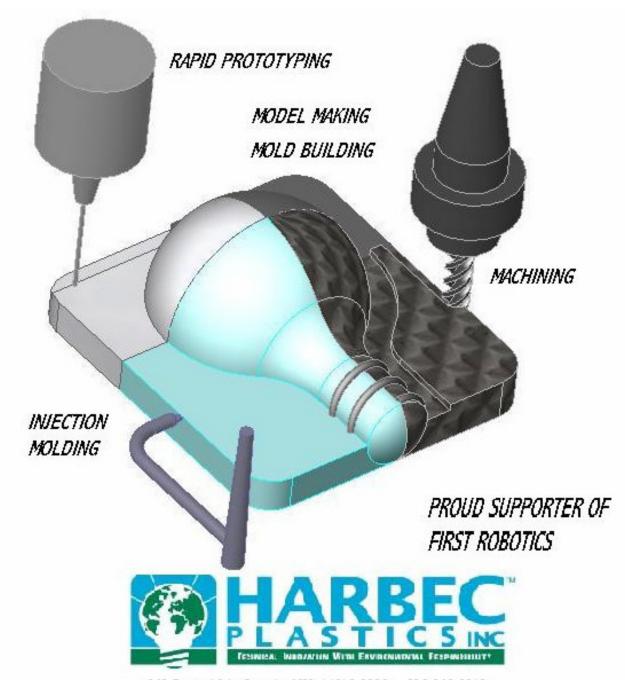




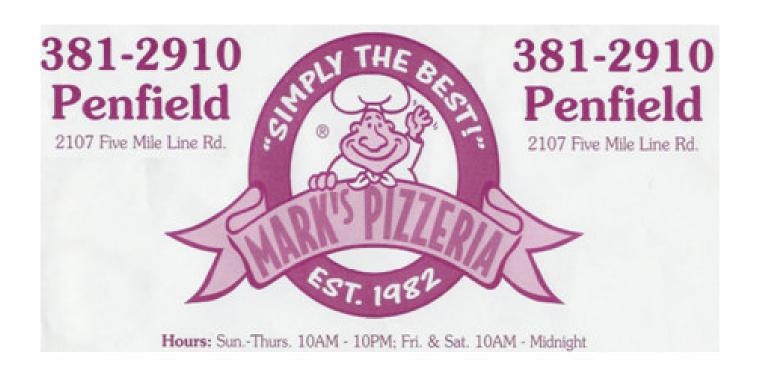


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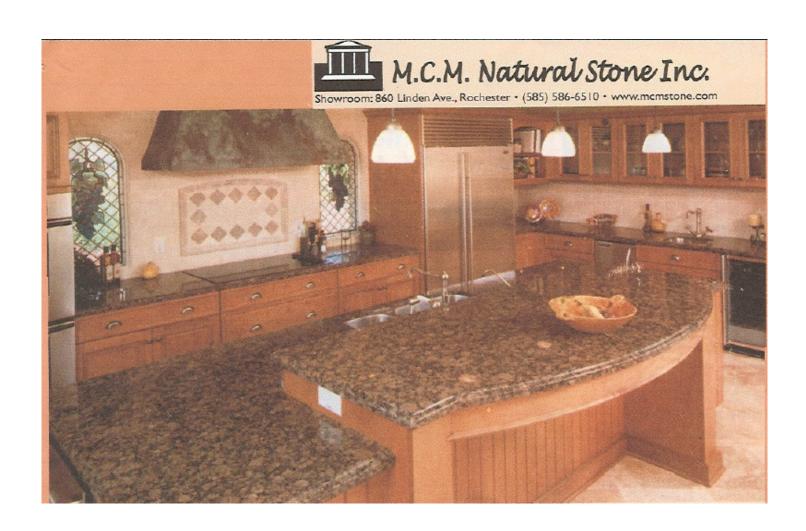
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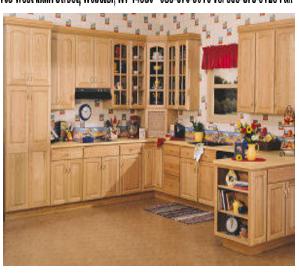




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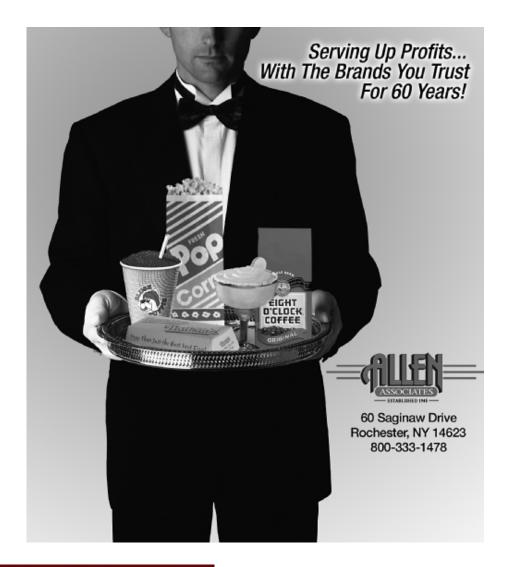
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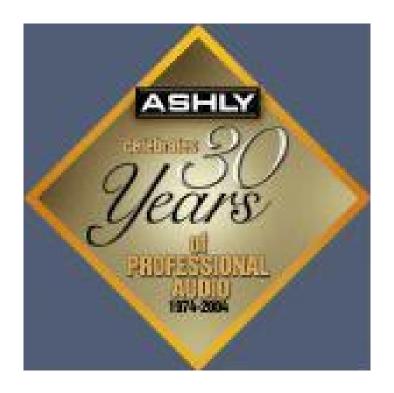
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- If you are in love with an idea, you are no judge of its beauty or value.
- It is difficult to see the whole picture when you are inside the frame.
- After learning the tricks of the trade, don't think you know the trade.
- 4. We hear and apprehend what we already know.
- The dog that stays on the porch will find no bones.
- Never state a problem to yourself in the same terms it was brought to you.
- 7. If it's offbeat or surprising, it's probably useful.
- If you do not expect the unexpected, you will not find it.
- 9. Don't get too serious.
- If you hit the bull's eye every time, the target is too near.

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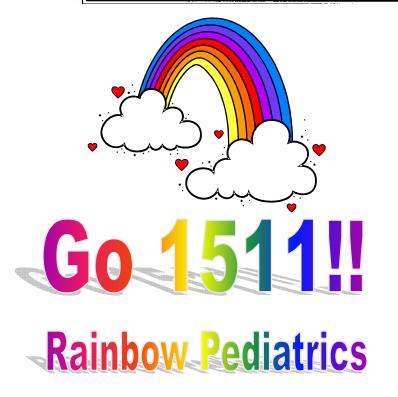
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