

STRATASYS
MINNESOTA FIRST TECH CHALLENGE STATE CHAMPIONSHIP
 Saturday, February 10-11, 2017
 Washington Technology Magnet School, St. Paul, MN

HIGH TECH KIDS VOLUNTEER AWARDS

Young Alumni Award

Comments	While still in college, this individual has taken on the task of mentoring an all-girls team and has come to multiple events and taken on several key volunteer positions, joining the ranks as one of the youngest key volunteers in Minnesota. For embodying the message of <i>FIRST</i> and giving back to his local community, we would like to recognize...
Award Winner	Nick Aarestad

Community Volunteer Award

Comments	Over the past several years, this volunteer has been working to strengthen FTC on the home front in several capacities. This year there were 8 teams formed in her school district. This volunteer also knows how to help new leaders grow, having been a Tournament Director and Key Volunteer herself. She has instilled a sense of Gracious Professionalism and Coopertition in her team. Last night, as we were setting up for this event, she and most of her team were on the floor helping to set up lights and fields for everyone to use today. For her guidance and demonstrative leadership we are recognizing this dedicated leader.
Award Winner	Heather Walberg

High Tech Kids Volunteer Award

Comments	This dedicated tournament official has shown great commitment to FTC here in Minnesota. Respected by his fellow volunteers for his depth of knowledge and leadership, people frequently request to be assigned alongside this extraordinary person – who has made an effort to attend each and every event this season. In fact, in December he caught us at the end of a tournament and said, “Would you mind just going ahead and slotting me at every event next month?”
Award Winner	Jim Irvine

High Tech Kids Leadership Award

This is awarded to someone who has taken the initiative to develop a community, not only in their own backyard, but around the Minnesota *FIRST* Tech Challenge community as a whole.

High Tech Kids Leadership Award	
Comments	<p>This volunteer has been serving the FTC community since before High Tech Kids became the partner. She prefers to be in the background at events, but her commitment and service has helped build this program into what you see today.</p> <p>Building special Excel spreadsheets for the field crew, collecting data confirming that 6 matches at State would be doable, training new scorekeepers and keeping tabs on the forums and software updates - she is always helping us improve, and her commitment from day one has been invaluable.</p> <p>We thank you for your continued support and clever ideas to ensure high quality events for these students.</p>
Award Winner	Pat Hines

YOUTH AWARDS

Dean's List

FIRST Dean's List celebrates outstanding student leaders whose passion for and effectiveness at attaining *FIRST* ideals are exemplary. These students were nominated by their coaches for their direct contributions and impact on others – exemplifying leadership and commitment on their FTC team, in their school and in their community. Finalists are invited to the *FIRST* World Championships held in St. Louis, Missouri, April 26-29, 2017.

Dean's List Minnesota Semi-Finalists		
Semi-Finalists	Zoe Berg Shaina Bhend Kyle George Grace Hansen John Helgeson Nathan Kanzelman Suchet Ketkar Ava Kian Rose Lam Christian Larson	Isidora Mack Cormac Pearce Marie Pena Sam Porter Tomer Ressler Noah Ricar Nicolas Riedel Cori Roberts Sabriya Taher Michael Thomas

From the Reviewers

This year Minnesota teams nominated 20 students. We were overwhelmed by the quality and tenacity of every single individual nominated. Each student nominated in Minnesota was more than deserving of this award and it was almost impossible for the reviewers to determine the top three.

3 Minnesota Finalists	
Quote about winner	Leadership and business acumen make this Crimson member a strong candidate.
Winner	Suchet Ketkar
Quote about winner	Helping other inside and outside of FIRST is important to this candidate. It doesn't matter who they are, what matters is what they can become.
Winner	Isidora Mack
Quote about winner	Ingenuity is a clear word to describe this candidate, specifically Extruded Ingenuity.
Winner	Sabriyah Taher

Stratasys Youth Scholarship Awards

Students in 10th and 11th grade were eligible to apply and they wrote a short essay on their experience with either 3D Printing and/or Engineering in *FIRST* Tech Challenge.

Finalists	Grant Altenhofen	John Helgeson	Cormac Pearce
	Jack Beckel	Kate Huselkamp	Sam Porter
	Zoe Berg	Concetta Knipe	Noah ricard
	Sean Corrigan	Elijah Le	Nick Riedel
	Emily DeBoard	Christian Larson	Atlanta Stoeke
	Akash D'Souza	Izzie Mack	Barbara Tan
	Michael Hall	Peyton Overholser	Branson Torralba

1st Stratasys Scholar	
Quote from our first Scholar's essay	<i>"3D printing is constantly sparking my curiosity. I learn about how it will shape my future and how I can be a part of it. I love 3D printing, hands down, and I can't wait to see where it takes me and how I can continue to learn about it through FTC and beyond."</i>
Winner	Zoe Berg

2nd Stratasys Scholar	
Quote from our first Scholar's essay	<i>"Being part of a team has taught me, that usually the best idea for the robot generally comes from a mix of everyone's ideas. Most importantly, I have learned that if I were trying to design the robot on my own, I would likely fail or design a substandard product."</i>
Winner	Christian Larson

3rd Stratasys Scholar	
Quote from our first Scholar's essay	<i>"I learned that hard work can pay off in a design. You can dream big and create anything you set your mind to. FTC gives you the tools and skills to think creatively and be able to produce it in the real world. People in the community are supportive and volunteer time out their lives to give teams a valuable experience."</i>
Winner	Nick Riedel

4th Stratasys Scholar	
Quote from our first Scholar's essay	<i>"Being a FTC team member has taught me to be resilient and to learn from my mistakes, in order to grow as an engineer and as a person. If one plan doesn't work out, try another. There is always going to be a way – that's what engineering is about."</i>
Winner	Barbara Tan

STATE CHAMPIONSHIP FTC AWARDS

Stratasys Award

Presented to the team with the best application of a 3D printed part.

Finalists	7588 The PRIDE – Burnsville 7646 Circuit Overlords – Burnsville 8808 The Ponytail Posse – Shoreview 8686 Height Differential – Shoreview 10273 Cat in the Hat Comes Back - Otsego
Winner	Team 8686 Height Differential – Shoreview, MN

Judges Awards

The Judges Award is given at the discretion of the Judges to a team whose unique efforts, performance or dynamics merit recognition, but the team does not fit into any other category. Three Judges Awards will be presented.

Reason	A road less traveled is always a difficult path. This team chose the difficult path with design and philosophy – A simple and sophisticated design. They stayed true to their philosophy with a solid performing, simple and sophisticated robot. Solid, simple, effective and efficient designs are the basis for patents and are supported by industry.	Winner	Team 8977 Sunburst Eagan, MN
Reason	The Judges found this team's enthusiasm only matched by their bright orange shirt. They stood out as a team that really demonstrated Gracious Professionalism to others – even the referees were impressed!	Winner	Team 11299 CrushBots Eagan, MN

Compass Award

Recognizes an adult coach or mentor who has provided outstanding guidance and support to an FTC team. Team members may nominate someone by submitting a 40-60 second video highlighting how their mentor has helped them become an outstanding team

Finalists	7190 The Green Girls – Eagan 8808 The Ponytail Posse – Shoreview 9205 The Iron Maidens – Apple Valley 10273 Cat in the Hat Comes Back – Otsego 11872 Visible Spectrum - Lakeville
Here's what the judges have to say about the award winner	This mentor's dedication has helped his team go far, His commitment to FIRST has truly raised the bar. For not one, but TWO teams, he has opened many a door Here's to ten more years and hopefully many, many more!
Winner	Norton Lam, Team 8808 The Ponytail Posse – Shoreview, MN

Promote Award

Presented to the team who creates a compelling public service announcement celebrating science, technology, engineering and math. Teams must present a thoughtful and high quality 40-60 second video.

Finalists	7655 The Q is Silqent – Eagan 8808 The Ponytail Posse – Shoreview 8686 Height Differential – Shoreview 9205 The Iron Maidens – Apple Valley 9890 The Rubies – Minneapolis
Here's what the judges have to say about the award winner	This video demonstrates a commitment to FIRST that goes above and beyond. A call to action for us all to support this fantastic program. It's up to you to volunteer – it all start with Just One.
Winner	Team 8686 Height Differential – Shoreview, MN

Control Award

Given to the team that demonstrates innovative thinking in the control system to solve game challenges such as the autonomous mode, enhancing mechanical systems or the creative use of sensors.

Finalists	7152 Robot Squad – Rochester 7655 The Q is Silqent - Eagan 8686 Height Differential – Shoreview 9205 The Iron Maidens – Apple Valley 10432 Untitled 1 - Aurora
Here's what the judges have to say about the award winner	This team showed off their great control today. Their autonomous certainly seized the day. And their three way drive did not leave them in sorrow. They wear orange for a brighter tomorrow!
Winner	Team 7152 Robot Squad – Rochester, MN

Motivate Award

This award celebrates the team who exemplifies the essence of the *FIRST* Tech Challenge competition through team spirit and enthusiasm.

Finalists	7190 The Green Girls – Eagan 7655 The Q is Silqent – Eagan 8686 Height Differential – Shoreview 9205 The Iron Maidens – Apple Valley 9890 The Rubies – Minneapolis
Here's what the judges have to say about the award winner	This team comes on strong and never lets up. Wearing many hats looks easy for this crew. This exemplary team captures the spirit of FIRST through their tireless advocacy which took them all the way to Washington DC.
Winner	Team 9205 The Iron Maidens – Apple Valley, MN

PTC Design Award

The intent of the PTC Design Award is to inspire teams to incorporate industrial design into their robots. This may be shown in the simplicity of the design or a unique design aspect. The design aspect must serve a function, but should also differentiate the robot in a unique fashion.

Finalists	7152 Robot Squad – Rochester 7190 The Green Girls – Eagan 8686 Height Differential – Shoreview 9205 Iron Maidens – Apple Valley 11873 Parallax Shift – Lakeville
Here's what the judges have to say about the award winner	They came from the south and banded together to carve out a new design. This team looked at the ball from a different angle. With layers of design and a lot under the hood.
Winner	Team 11873 Parallax Shift – Lakeville, MN

Rockwell Collins Innovate Award

Presented a team that not only thinks outside the box, but also has the ingenuity and inventiveness to make their designs come to life. It is awarded to the team with the most innovative and creative robot design that operates consistently and is thoroughly documented in the team's engineering notebook.

Finalists	7152 Robot Squad – Rochester 7190 The Green Girls – Eagan 7900 The Danger Zone – Prior Lake 8712 EPIC – Shoreview 11190 Mecha Dojo Robotics – Eden Prairie
Here's what the judges have to say about the award winner	This team really capped off a successful season. Their hats can be seen from a mile away. Their robot really got down to business today!
Winner	Team 7190 The Green Girls – Eagan, MN

Connect Award

Presented to a team who connects with their local and engineering communities. The recipient of this award is recognized for their outreach and exploring the opportunities in the world of engineering, science and technology.

Finalists	7190 The Green Girls – Eagan 7655 The Q is Silqent – Eagan 8808 The Ponytail Posse – Shoreview 9205 The Iron Maidens – Apple Valley 9890 The Rubies - Minneapolis
Here's what the judges have to say about the award winner	Their engineering professionals span the years. Coaching the coaches for new teams spins their gears. They know disparities should not be a concern. Language, gender and income must not cause <i>FIRST</i> to adjourn. This team opened FTC to loads of schools. Many thanks to these great jewels!
Winner	Team 9890 The Rubies – Minneapolis, MN

Think Award

The engineering notebook is a critical reference tool for teams. This award recognizes the team who best understands the role of the engineering notebook in the design process. The winning teams' notebook focused on the design and build stages of the robot.

Finalists	7190 The Green Girls – Eagan 7655 The Q is Silqent – Eagan 8686 Height Differential – Shoreview 8808 The Ponytail Posse – Shoreview 11872 Visible Spectrum - Lakeville
Here's what the judges have to say about the award winner	Notebooks like these are far between and few. With explanation from design to testing and review. So if they give you notebook advice, it not because they're bossy. They're experts at this sort of thing, this Ponytail Posse.
Winner	Team 8808 The Ponytail Posse – Shoreview, MN

ROBOT PERFORMANCE AWARDS

Division Finalists

GALAXY DIVISION FINALIST ALLIANCE	
Alliance Captain	Team 10397 Ice Breakers – Eden Prairie, MN
First Team Chosen	Team 9430 Typhoons – Bloomington, MN
Second Team Chosen	Team 9890 The Rubies – Minneapolis, MN

NANO DIVISION FINALIST ALLIANCE	
Alliance Captain	Team 10398 Quantum Mechanics – Eden Prairie, MN
First Team Chosen	Team 7655 The Q is Silqent – Eagan, MN
Second Team Chosen	Team 7900 The Danger Zone – Prior Lake, MN

State Championship Finalist Alliance

MN STATE CHAMPIONSHIP FINALIST ALLIANCE	
Alliance Captain	Team 10555 Tekceratops – Bloomington, MN
First Team Chosen	Team 8712 EPIC – Shoreview, MN
Second Team Chosen	Team 9418 Tempest Automatons – Chanhassen, MN

State Championship Winning Alliance

MN STATE CHAMPIONSHIP WINNING ALLIANCE	
Alliance Captain	Team 8686 Height Differential – Shoreview, MN
First Team Chosen	Team 7152 Robot Squad – Rochester, MN
Second Team Chosen	Team 11873 Parallax Shift – Lakeville, MN

INSPIRE AWARD

The Inspire Award is presented to the team who embodies the challenge and ideals of the FTC Program. These inspirational teams have performed well in all judging categories. Judges used match performance, pit area observations, team interviews, the engineering notebook and robot performance on the playing field.

Third Place	
Here's what the judges have to say about the 3rd place winner	This team is more than just a bot and group of smiling faces. From Capitol Hill to here in St. Paul, they've taken robots to near and far places. The competition was on as soon as this team arrived. They'll show anyone how FIRST is done, Team 9-2-0-5
Third Place Inspire Award	Team 9205 Iron Maidens – Apple Valley, MN

Second Place	
Here's what the judges have to say about the 2nd place winner	This team has made their mark in every facet of the game. Both STEM professionals and tiny scientists are sure to know their name. They've grown to new heights, achieving levels totally new. And all while wearing trendy ties, our friends, the silent Q.
Second Place Inspire Award	Team 7655 The Q is Silqent – Eagan, MN

First Place	
Here's what the judges have to say about the 1st place winner	What's more inspiring in a robotics competition than a well performing robot and team with a mission? In every single category, this team has proven their potential. Our stately Inspire winner – Height Differential!
First Place Inspire Award	Team 8686 Height Differential – Shoreview, MN

TEAMS ADVANCING

Minnesota will be advancing seven teams to the FTC North Super Regional to be held March 30 – April 1, 2017 at the US Cellular Center in Cedar Rapids, Iowa.

1	Team 8686 Height Differential – Shoreview, MN
2	Team 7655 The Q is Silqent – Eagan, MN
3	Team 7152 Robot Squad – Rochester, MN
4	Team 9205 Iron Maidens – Apple Valley, MN
5	Team 11873 Parallax Shift – Lakeville, MN
6	Team 8808 The Ponytail Posse – Shoreview, MN
7	Team 10555 Teckceratops – Bloomington, MN
8	Team 9890 The Rubies – Minneapolis, MN