

STRATASYS
MINNESOTA FIRST TECH CHALLENGE STATE CHAMPIONSHIP
Saturday, February 9-10, 2018
Washington Technology Magnet School, St. Paul, MN

HIGH TECH KIDS VOLUNTEER AWARDS

Young Alumni Award

Comments	She jumped into the role of volunteer with both feet. This season alone she had volunteered at 7 FTC events and 4 FLL events as well as Dean's List interviewer and reviewer. She has never hinted at saying no, instead offering to do more. When she had a friend visiting from out of town, she invited him to be scorekeeper for the day. She is truly a volunteer coordinators dream. For always being there, willing to do practically anything and doing it all with enthusiasm and a smile, we would like to recognize an exceptional young alumnus...
Award Winner	Jess Yeganeh

Community Volunteer Award

Comments	This individual has worked tirelessly for the past 6+ years to bring robotics to students who would not normally have the opportunity. He single handedly coaches up to six FTC teams each season as a afterschool program with the goal to introduce students to the engineering design process and encourage them to pursue degrees after high school. After a full day of teaching, he has given countless hours so his students can succeed. We have had the pleasure of getting to know him over the past five years as the tournament director at Columbia Heights. For all of the great work in growing FTC in his community...
Award Winner	Aaron Kennedy

High Tech Kids Volunteer Award

Comments	This person has mentored, works with other <i>FIRST</i> programs and volunteers at a MN FTC event each weekend. Generally, she is in the background, but still actively involved. She has judged, been a Dean's List reviewer and scorekeeper. For unbelievable support and willingness to help as often as necessary, we'd like to heartily thank...
Award Winner	Sharon Rauenhorst

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 person has been serving the Minnesota FTC community for the past three seasons. Starting as a robot inspector, he moved into roles such as FTA, Field Manager, Referee and Judge. The only volunteer he hasn't tackled is scorekeeping (but we always have next season to work on that!).</p> <p>He has become a dependable member of our High Tech Kids volunteer community, always looking to take on new challenges to help our community grow to better serve students.</p> <p>This season he accepted the challenge of coordinating a league and has provided valuable feedback about the structure of league play in Minnesota. We have appreciated your leadership to take on new challenges.</p>
Award Winner	Jason Stoeke

YOUTH AWARDS

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 Zoe Berg Yana Burgess David Ciriacy Akash D'Souza William Froehle	Charlotte Hamilton Alex Hedlund Kate Huelskamp Nancy Koshy Lisa Le Keenan Leverty	Isidora Mack Sam Porter Connor Shea Heaven Solomon Rachel Springer Billy Wencil
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Stratasys 3D Printing Scholar	
Quote from the Scholar's essay	<i>My FTC experience has taught me how rewarding it is to be part of a team. I know that any problem we encounter as a team can be solved because by working together, we can find solutions. And every accomplishment is more satisfying because we all share in it.</i>
Winner	Isidora Mack

Stratasys 3D Printing Scholar	
Quote from the Scholar's essay	<i>In a team, everyone brings different skills and strengths to the group. By using all that I have learned in 3D printing, and the cooperation and team work skills, I can have a better idea of what I want to do after college and how I can get there.</i>
Winner	Keenan Leverly

Stratasys Engineering Scholar	
Quote from the Scholar's essay	<i>FTC forced me to break out of my comfort zone and push my limits in an effort to mold me into the mindset of an engineer. Although this process could be tough and tiring, the satisfaction I felt at the end was always worth it and as a result, I have become interested in pursuing mechanical engineering as a field of study.</i>
Winner	Nancy Koshy

4th Stratasys Scholar	
Quote from the Scholar's essay	<i>Throughout FTC, it's been really exciting to be able to go through a process of building a robot. It has helped me learn a lot about engineering, and has really shown me all the work that goes into building a finished product.</i>
Winner	Akash D'Souza

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.

Dean's List Minnesota Semi-Finalists			
36 Minnesota Semi-Finalists	Serena Abraham	Katie Fritz	Rebecca Martinez-Zamora
	Grant Altenhofen	Kyle George	Chase Mathis
	Mohamed Arab	Grace Hansen	Anna Marie Mitchell
	Ethan Badger	Alex Hedlund	Noah Peterson
	Zoe Berg	Tai Henrichs	Erin Rainer
	Shaina Bhend	Tyler Johnston	Noah Ricard
	Austin Bodin	Donny Kapaun	Rachel Springer
	Yana Burgess	Isabella Kemling	Billy Wencil
	Kathy Dinh	Nancy Koshy	Joseph Westrich
	Jacob Downs	Erik Lindeman	Andy Wong
	Akash D'Souza	Ben Maldonado	Selina Woo
	Dru Ellering	Andrew Martin	Hunti Xiong

From the Reviewers

This year Minnesota teams nominated 36 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 the reviewers had the difficult task of selecting only four to move forward.

4 Minnesota Finalists	
Quote about the finalist	This candidate's genuine passion shines through in everything she says and does. Breaking down problems down into manageable pieces for the rest of the team is one of her strengths.
MN Finalist	Zoe Berg
Quote about the finalist	Sharing words of <i>FIRST</i> is part of this candidate's eagerness and excitement to storm through the competition.
MN Finalist	Yana Burgess
Quote about the finalist	The interviewer couldn't find enough words to describe this candidate's infectious excitement and passion for <i>FIRST</i> programs. She is truly a GEM.
MN Finalist	Rachel Springer
Quote about the finalist	This candidate has worked on all aspects of the robot, but when there is talk of <i>FIRST</i> it goes well beyond the team. She credits FLL and FTC for her comfort level in articulately speaking to adults and groups. She is a very <i>VISIBLE</i> figure at FLL and FTC events.
MN Finalist	Selina Woo

MINNESOTA FTC STATE CHAMPIONSHIP AWARDS

Stratasys Award

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

Finalists	8686 Height Differential – Shoreview 9890 RUBIES – Minneapolis 10272 Titanium Allies – Shoreview 11190 Mecha Dojo – Eden Prairie 11873 Parallax Shift – Lakeville
Here’s what the judges have to say about the award winner	When it comes to their printing skills, they have a gift. Their notebook and iteration process gave their standing a lift. They’ve earned out kudos, they all like flaming hot Cheetos. The winner of the Stratasys Award is Parallax Shift!
Winner	Team 11873 Parallax Shift – Lakeville, 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.

Judges Award	
Here’s what the judges have to say about the award winner	This team’s enthusiasm and focus on robotics inspired us and warmed our hearts. Regardless of their individual obstacles, they worked together and heled each other design, build, program, test and operate a great robot.
Winner	Team 10562 Golden Crusaders – Elk River, MN

Judges Award	
Here’s what the judges have to say about the award winner	<i>This award is presented to a team that showed gracious professionalism. During a match a team on the opposing alliance’s controller malfunctioned. Our winning team gave one of their extra controllers to their opponent allowing them to continue the match.</i>
Winner	Team 10590 Monkey Wrench Gang – Burnsville, 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	8686 Height Differential – Shoreview 8808 Ponytail Posse – Shoreview 9205 The Iron Maidens – Apple Valley 10398 Quantum Mechanics – Eden Prairie 12528 NextGen – Apple Valley
Here's what the judges have to say about the award winner	Our choice for Compass was crystal clear. In fact, it's black and white. Leading teams and following rules, he always does what's right. Every week at an event, you've all seen him before Giving back to FRC, FTC, High Tech Kids and more!
Winner	Jim Irvine, Nominated by 8686 Height Differential – 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	7152 Robot Squad – Rochester 9890 The Rubies – Minneapolis 10273 Cat in the Hat Comes Back 11488 SOLID – Eagan 12528 NextGen – Apple Valley
Here's what the judges have to say about the award winner	The question to teams was dispersed. What do we want the world to know about <i>FIRST</i> . As a PSA theirs was the best Ages served by <i>FIRST</i> answered the quest. What we all know, they were able to show The best of all things about <i>FIRST</i> .
Winner	Team 12528 NextGen – Apple Valley, 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	8438 Quantum Leap – Stillwater 8686 Height Differential – Shoreview 11150 Thunder PengWin Robotics – Eagan 11301 Mustang Gear Gang #1 – Brooklyn Park 12528 NextGen – Apple Valley
Here’s what the judges have to say about the award winner	This team demonstrated both speed and precision. They had a consistent autonomous mode and efficient teleop. They implemented an elegant object oriented design.
Winner	Team 12528 NextGen – Apple Valley, MN

Motivate Award

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

Finalists	8808 Ponytail Posse – Shoreview 9205 The Iron Maidens – Apple Valley 9890 The Rubies – Minneapolis 11872 Visible Spectrum – Lakeville 12943 Qbitz - Lakeville
Here’s what the judges have to say about the award winner	The judges have awarded this team for their amazing explanation and documentation of their motivational pursuits as Ambassadors for <i>FIRST</i> . With well over 1000 hours of outreach, serving every visible part of the community, this colorful team pairs developing teams with mentors of experienced teams with their impressive program called <i>FIRST</i> Friends.
Winner	Team 11872 Visible Spectrum – Lakeville, MN

Design Award

The intent of the 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	7588 THE PRIDE – Burnsville 8686 Height Differential – Shoreview 10273 Cat in the Hat Comes Back – Otsego 11190 Mecha Dojo – Eden Prairie 11873 Parallax Shift – Lakeville
Here's what the judges have to say about the award winner	This robot went through a series of design iterations. It kept them rolling through the process. Fine tuning their glyph intake assembly allowed them to reach new heights.
Winner	Team 8686 Height Differential – Shoreview, MN

Rockwell Collins Innovate Award

Presented to 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 9418 Tempest Automatons – Chanhassen 10272 Titanium Allies – Shoreview 11190 Mecha Dojo Robotics – Eden Prairie 11873 Parallax Shift - Lakeville
Here's what the judges have to say about the award winner	A top notch performance with 2 pairs of claws. The crypto box fills as the audience awes. They can alternate colors in any way. When you watch them, you're the student and they are the sensei.
Winner	Team 11190 Mecha Dojo Robotics – Eden Prairie, 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	8686 Height Differential – Shoreview 8808 Ponytail Posse – Shoreview 9890 RUBIES – Minneapolis 11488 SOLID – Eagan 11872 Visible Spectrum – Lakeville
Here’s what the judges have to say about the award winner	The winning team really connected both forward and back. Providing a key linkage between the existing engineering community and future generations. Pulling inspiration from conversations with numerous STEM professionals in the area, they also built a solid base for future growth by dramatically increasing the number of FLL & FTC teams in their district.
Winner	Team 9890 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 9205 Iron Maidens – Apple Valley 9890 RUBIES – Minneapolis 11872 Visible Spectrum - Lakeville 12528 NextGen – Apple Valley
Here’s what the judges have to say about the award winner	This team clearly knows how to put together an engineering notebook. You could follow their whole design process based on their notes. They have two comprehensive engineering notebooks. The team is fresh off a week of travel to North Dakota and the United Nations – so let’s welcome back this Think Award Winner.
Winner	Team 7190 Green Girls – Eagan, MN

ROBOT PERFORMANCE AWARDS

Division Finalists

GALAXY DIVISION FINALIST ALLIANCE	
Alliance Captain	Team 7288 RoboGlaciers – North Branch, MN
First Team Chosen	Team 13623 Iron Tacos – Eagan, MN
Second Team Chosen	Team 11935 Circuit Sisters – St. Paul, MN

NANO DIVISION FINALIST ALLIANCE	
Alliance Captain	Team 3763 Piece of Cake – Edina, MN
First Team Chosen	Team 9972 Iron Gears – Elk River, MN
Second Team Chosen	Team 6369 Designosaurs – Bloomington, MN

State Championship Finalist Alliance

MN STATE CHAMPIONSHIP FINALIST ALLIANCE	
Alliance Captain	Team 11190 Mecha Dojo Robotics – Eden Prairie, MN
First Team Chosen	Team 8686 Height Differential – Shoreview, MN
Second Team Chosen	Team 10273 Cat in the Hat Comes Back – Otsego, MN

State Championship Winning Alliance

MN STATE CHAMPIONSHIP WINNING ALLIANCE	
Alliance Captain	Team 11301 Mustang Gear Gang #1 – Brooklyn Park, MN
First Team Chosen	Team 12528 NextGen – Apple Valley, MN
Second Team Chosen	Team 6699 Tempest – St. Paul, 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	<p>Their volunteer-centric outreach combined with a robot with a unique approach for lifting glyphs inspired the judged to nominate them.</p> <p>They used powerful mathematical modeling tools in its design and they communicated the benefits of the <i>FIRST</i> program to a wide audience.</p>
Third Place Inspire Award	Team 8686 Height Differential – Shoreview, MN

Second Place	
Here's what the judges have to say about the 2nd place winner	<p>This team did a lot of CAD and math and had it featured in their notebooks. Their curriculum reaches students without access to <i>FIRST</i> programs. They brought in STEM professionals to talk to not only their team but also to the other teams in their urban robotics alliance.</p>
Second Place Inspire Award	Team 9890 RUBIES – Minneapolis, MN

First Place	
Here's what the judges have to say about the 1st place winner	<p>The first time I met this team they were wide-eyed and had lots of questions. It is truly inspiring to see how far they have come.</p> <p>Outreach that changes lives in deep and meaningful ways. From starting over 20 FLL Jr teams to raising over \$20,000 to support FTC in their school, it was never about the quantity of outreach but the quality of impact.</p> <p>They connect and motivate, their engineering notebook stands as an example of devotion to following directions. It is my honor and privilege to present the 2017-18 MN State Championship Inspire Award and the first Lazybotts Inspire Award Grant of \$1,000 to ...</p>
First Place Inspire Award	Team 8808 Ponytail Posse – Shoreview, MN

TEAMS ADVANCING

Minnesota will be advancing eleven teams to the *FIRST* Tech Challenge North Super Regional.

1	Team 8808 Ponytail Posse – Shoreview, MN
2	Team 11301 Mustang Gear Gang #1 – Brooklyn Park, MN
3	Team 9890 RUBIES – Minneapolis, MN
4	Team 12528 NextGen – Apple Valley, MN
5	Team 8686 Height Differential – Shoreview, MN
6	Team 6699 Tempest – St. Paul, MN
7	Team 11190 Mecha Dojo Robotics – Eden Prairie, MN
8	Team 10273 Cat in the Hat Comes Back – Otsego, MN
9	Team 11872 Visible Spectrum – Lakeville, MN
10	Team 3763 Piece of Cake – Edina, MN
11	Team 9205 Iron Maidens – Apple Valley, MN