



**Concord High School Robotics
Team 1721 Tidal Force**

2017-2018 Sponsorship Packet

Who is Tidal Force?

Team 1721 Tidal Force is an interdisciplinary team devoted to designing, building, testing, and competing with a robot in the *FIRST* Robotics Competition (FRC). Tidal Force currently consists of high school students interested in the fields of Science, Technology, Engineering, and Mathematics (STEM) and applying related skills in a fast-paced, business-like environment gaining experience to solve complex problems. The team is entirely student run, split into four main subteams; mechanical, software, electrical, and outreach. We receive guidance and support from a board of parents and mentors. The team will participate in the 2018 *FIRST* Robotics Competition game, which is to be unveiled on January 6, 2018. From that date, we will have exactly 6 weeks to design and fabricate a robot to completion. Along with building a robot, the team interacts heavily with the community to promote STEM in the greater Concord area. We're especially proud of our continuous work to inspire elementary school aged kids via mentoring a *FIRST* Lego League Jr (FLL Jr) team, as well as hosting an FLL event at the University of New Hampshire. Income is the responsibility of the outreach subteam, receiving no financial support from Concord High School. The team is also a recognized 501(c)(3) nonprofit organization, funded by grants and donations from local businesses.

What Is *FIRST*?

The *FIRST* Robotics Competition is a sport-like competition held by the company *FIRST*. *FIRST*, For Inspiration and Recognition of Science and Technology, is a Dean Kamen company founded in 1989 focused on transforming our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology leaders. The competition is held at a district, regional, and international level where teams that place well at district events have a chance to be in a ranking to move up to regionals. Regional competition winners then move on to the international competition, which will be held in Detroit, MI in 2018. The students involved gain a head start in the the pursuit of college STEM degrees and industry experience.

This past year, Tidal Force participated in the 2017 game, *FIRST* Steamworks. Attending two district events: the North Shore event in Reading, MA, and the Southern New Hampshire event in Bedford, NH. The team qualified for the District Championships at the University of New Hampshire, and then, for the first time in team history, for the World Championships in St. Louis, MO.

How Does Tidal Force Impact It's Greater Concord Community?

Not only do the students involved gain an invaluable experience, but they impact the people around them. The team takes initiative to spread curiosity in the STEM fields and opportunities to participate in *FIRST*. To do this, we have started other *FIRST* teams, like at Franklin High School, run and volunteered at other *FIRST* events, mentored younger students on our FLL teams, and demonstrated our robots at Girl Scout events and for schools around the area.



FRC Team 1721 Demo Robot at Abbot-Downing Elementary School in Concord, New Hampshire

Student Profile and Demographics

Tidal Force is a very diverse and accepting team, we aim to inspire STEM in all our students no matter who they are or their background. The 2016 - 2017 team consisted of 33 members which was a 470% growth over the 7 members in the previous year. Our team has a 44% female participation rate, more than twice the national average. Due to the team's inclusive nature, our LGBTQ+ population is about 18%. Team members strive to achieve higher goals in their education with 66% of the team taking an AP class. Of that, 75% take AP Physics. 90% of our students also take 2 or more STEM-related classes, where they can immediately apply the things they learn in our robotics meetings.

Messages From The Students

FIRST and STEM have a very big role in our students lives, here are a few messages from them.

“FIRST gives me the opportunity to do something I love, while preparing me to work in a demanding industry. This team helped me realize what I want to dedicate my life to. I will be majoring in biomedical engineering next fall, and I couldn’t see myself doing anything else.”

~Amanda Enderson
2017-2018 Team Captain

“Tidal Force and FRC have opened up so many opportunities to me and helped me grow so much as a person, I don’t know where I would be without all the valuable things I have learned from the program.”

~Zach McMenemy
2017-2018 Assistant Team Captain

“When I came into the program, I was unsure of what I wanted to major in in college, I was unsure of where I wanted to work, and I was unsure, most of all, about my strengths and talents. FRC, and, more specifically, Tidal Force, allowed me to better know myself through engineering and outreach, and I am proud to say, with certainty, that I want to be an engineer.”

~Ian Maciag
Second Year Member

“Tidal Force is family, I have been around it for 3 years and it has always felt like a place I am welcomed.”

~Caleb Marcel
Third Year Member

“Tidal Force is more than just a team for me, it is a family. I have never been closer to a group of people, they are the kindest and funniest people I’ve ever met. I’m happiest when I am with them and I would have never found them if it were not for FIRST.”

~Abby Maynard
Second Year Member

“Tidal Force has taught me so many things and I gained a family when I joined robotics. I have a support system of friends and mentors that I know are always there for me. Tidal Force has been the result of some of my proudest and happiest moments and I'm so glad I decided to join.”

~Rosie Spidel
Second Year Member



2016-2017 Tidal Force Team at New England District Championship Hosted at UNH

What Can You Do To Help Our Team?

Any amount, or type of donation, will greatly help our team. Adults with any skill set, interested in the program and teaching students, can volunteer to mentor. If you would like to invest in the team, it will be much appreciated and will not go unnoticed. Please refer to the following chart for what we offer in exchange for your generous financial donations: (Note: all tiers receive previous tiers benefits).

Team Captain: Amanda Enderson, enderson.amanda00@gmail.com
Nonprofit President: Nate Cordova, ncordova1993@gmail.com
Team Website: <http://www.frc1721.org>

Donation Appreciation Tiering

Tier 1 \$25-\$499

- Name or logo on team website
- Thank you letter from the team
- Added to the email newsletter

Tier 2 \$500-\$999

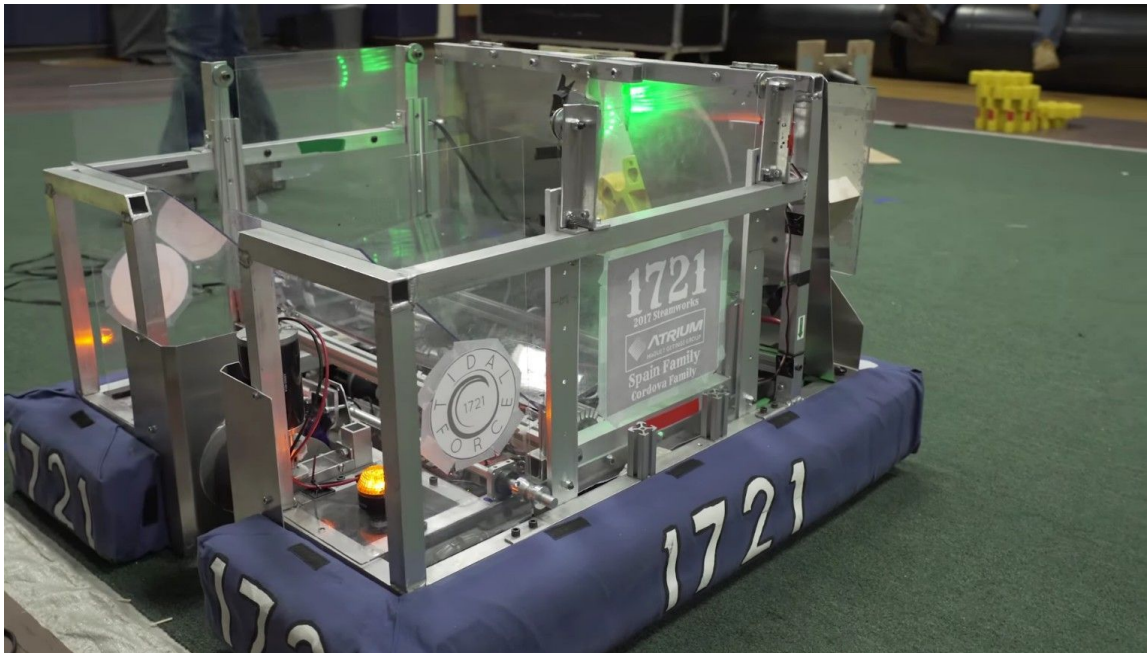
- Name or logo on team T-Shirts (if sponsored before November 1st)
- Name listed on our pit displays

Tier 3 \$1000-\$2499

- Logo on our robot
- Large logo on our pit displays
- Large logo on team T-Shirts (if sponsored before November 1st)
- Displayed in the credits of Team Videos

Tier 4 \$2500+

- A demonstration of our robot and team at your place of business
- Thank you so much for such a generous gift! Please get in touch with us to work out a sponsorship benefits package that works with you!



2016-2017 Competition Robot “Hungry Toaster”

Team Captain: Amanda Enderson, enderson.amanda00@gmail.com

Nonprofit President: Nate Cordova, ncordova1993@gmail.com

Team Website: <http://www.frc1721.org>

Benefits Of Sponsorship

- Any donation, whether material or financial is entirely tax-deductible.
- Sponsors will receive local, national, and international recognition and attention. With any amount of donation, your advertising will receive worldwide attention due to the international reach of *FIRST*.
- Your logo, name, or message will be on our team apparel and our robot, competing around the country.
- This is a unique opportunity to help a generational team that aspires to go beyond expectations. The team will be building an entirely new robot, which provides sponsors the chance to invest and be part of a project that will set a new standard for Tidal Force while continuing the ongoing pattern of success.
- Your support shows commitment to providing high school students with the opportunity to exercise their knowledge and gain crucial experience before entering post-secondary education and/or the work force.

Thank you!

Thank you for your consideration! The team would love to meet with your company representatives. If you would like to donate funding, materials, or time as a mentor, please contact Amanda Enderson or Nate Cordova. We love to work with businesses in our community that share our values of nurturing STEM in our students, and we are forever grateful to our generous sponsors.

Non Profit Information

Concord Robotics is a 501(c)3 organization
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