

**NORTHVIEW
TECHNO TITANS
ROBOTICS
FOUNDATION, INC.**

EIN/TAX-ID: 81-0762109

501(C)(3) NON-PROFIT ORGANIZATION

SPONSORSHIP PACKET
2022-2023



ABOUT THE TEAM

Northview Techno Titans Robotics Foundation Inc. is a 501(c)(3) non-profit organization which supports the Techno Titans Robotics Team from Northview High School in Johns Creek, Georgia. Each year, we participate in the *FIRST®* (For Inspiration and Recognition of Science and Technology) Robotics Competition (FRC) and travel to compete at events run by *FIRST®*.

Initially, our team started as a school club in 2005. In 2015, after losing multiple resources, a 501(c)(3) foundation was formed, increasing the team's stability and future potential. We now impact our community through various educational programs and demonstrations for students passionate about STEM (Science, Technology, Engineering, and Mathematics).



MISSION

Our mission is to prepare students for careers in STEM, instill a strong foundation for success in any future endeavors, encourage collaboration and teamwork, and actively mentor students and point them in the right direction as they learn skills through designing and building robots, working with others, and building sponsor relationships.

The mission of *FIRST®* is to inspire young people to be science and technology leaders and innovators, by engaging them in exciting mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

SUBTEAMS

BUSINESS

There are many jobs that do not require technical engineering skills.

The business team tasks include:

- Designing and branding of merchandise
- Social media management
- Website content management
- Video creation
- Team photography
- Seeking and maintaining sponsorships
- Applying for awards and grants

ELECTRICAL

Electrical is the subteam that brings power to the robot. The electrical team works on:

- Wiring the robot
- Power regulation
- Pneumatics
- Sensors (ultrasonic, gyroscope, potentiometers, etc.)

DESIGN & FABRICATION

The design team uses computer aided design (CAD) software to blueprint the robot. The fabrication team brings the blueprints to life with metal and power tools. Some of the tasks the mechanical team does:

- Build the robot
- CAD (Solidworks)
- Visual representation of the robot
- Working with power tools

PROGRAMMING

The robot is just a block of metal and wire until the programming team codes the robot's movements. Skills the programming team uses:

- Java for the main code
- Python for vision code
- Mobile app development
- Using Raspberry Pis



RECENT ACHIEVEMENTS

- PCH District State Championship, Team Spirit Award 2022
- PCH District Albany Event, District Chairman's Award 2022
- PCH District Dalton Event, Entrepreneurship Award 2022
- July HEAT, Event 2 (GeorgiaFIRST): Feel the Heat Award 2021
- FIRST At-Home Challenge, Game Design Challenge - Engineering Design Award 2021 (Zirconium Group)
- PCH District Regional Chairman's Award 2021
- GRITS Trophy Design 2020 (Co-winner)
- GRITS Robot Model Design 2020 (Co-winner)
- PCH District State Championship Dean's List Finalist Award 2020
- PCH District Gainesville Event, Entrepreneurship Award 2020
- Turing-Hopper Division Entrepreneurship Award 2019
- PCH District State Championship Regional Engineering Inspiration Award 2019
- PCH District Forsyth District Creativity Award 2019
- PCH District Albany Safety Award 2019
- PCH District Albany Event Finalist 2019
- PCH District Albany Engineering Inspiration Award 2019
- PCH District Gainesville Entrepreneurship Award 2019
- PCH District Albany Event District Chairman's Award 2018
- PCH District Columbus Event, Excellence in Engineering Award 2017
- Georgia State Quarterfinals: 2017
- Columbus Qualifier Semifinals: 2017
- Gainesville Qualifier Quarterfinals: 2017
- PCH District Kennesaw Event, Quarterfinals 2016
- PCH District Dalton Event, Semifinals 2016
- PCH District Dalton Event, Team Spirit Award 2016



PROJECTS & ACTIVITIES

SUMMER CAMP

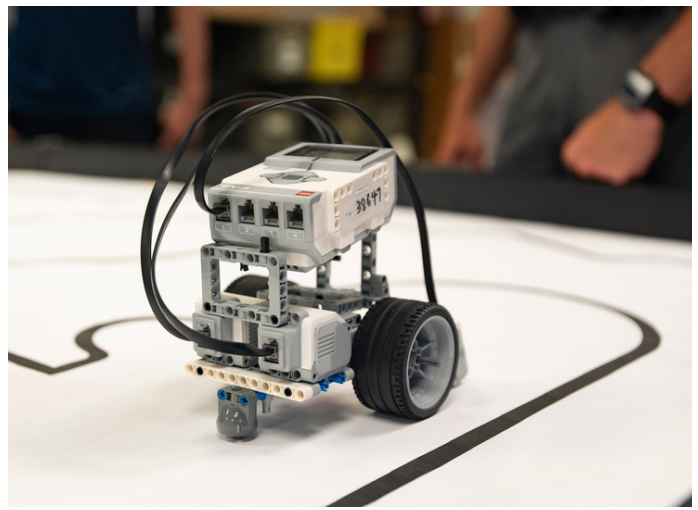
Every year, varsity robotics team members host a summer camp open to rising 4th to rising 9th graders. During the summer camp, children develop their understanding about STEM related subjects through projects. While working on these projects, kids develop various skills as well as learn how to function as a team and become better teammates themselves in the future.

FALL BOOTCAMP

Students interested in robotics are exposed to the multiple subteams including: mechanical, electrical, business, design, and programming. Students are taught the fundamentals of subteams through a two-week boot camp. Through critical thinking and creative problem solving, their skills are put to the test by being assigned projects.

MOBILE GAME APPS

We develop a game for mobile devices themed around the *FIRST*® competition every year. In 2022, our team created “Titan's Trek” which was based on the *FIRST*® Rapid React competition. Developing a game every year has become a Techno Titan tradition, and we hope to make our future games available for download for both iOS and Android devices. Hopefully our games will be played by non-robotics members, helping spread STEM in the community.



FIRST® COMPETITION

Every *FIRST*® season we design, build, wire, and program a robot to take to competition. Although there is a different specific task to accomplish for every competition, robots generally have to be capable of collecting and moving objects around, climbing up somehow, and moving autonomously. Robots weigh 120 pounds and must be built within 6 weeks.



KRONOS - TSHIRT BOT

Over the past few years, we have designed and built a T-shirt shooting robot. Kronos has spread STEM to over 25,000 people so far in fun and exciting ways. Kronos is sent to various community events to advertise STEM in fun and exciting ways the hopes of exposing people to the capabilities of our program.

COMMUNITY SERVICE

In order to grow STEM in our community, we participate in local events and mentor teams including *FIRST*® Lego League (FLL) and *FIRST*® Tech Challenge (FTC) teams.

MENTORSHIP

In addition to our own team, we have supported other robotics and FLL teams through our outreach programs. Some of the teams we've helped include:

- *FIRST*® Lego League (FLL) and *FIRST*® Tech Challenge (FTC) Teams: FLL and FTC are *FIRST*® programs aimed at elementary and middle school students. We currently mentor one community FLL team, the Cosmic Wolves, and one FTC team, Atlantis.
- Gladiator Robotics: Gladiator Robotics started their FRC team in 2014, and we were able to offer help by lending mentors, supplies, and space, as well as aiding them with their registration process. Through their hard work and a little assistance, they were able to win the 2015 Peachtree District Judge's Award.

LOCAL EVENTS

We like to give robot demonstrations to current and future sponsors, connecting companies with robotics and STEM education. Sponsor companies use our name as a model team to increase their support for STEM and *FIRST*® competitions. We also attend and demonstrate about robots at fairs and open houses to promote STEM and robotics in our community. We have given demonstrations at schools, and to Boys and Girls Scout troops to encourage STEM education. ***Techno Titans Day of Giving*** is a new tradition where we give back with donations to a local food and clothing bank.

**"It's not just about
the robot."
- Dean Kamen**



SUPPORTING THE TECHNO TITANS

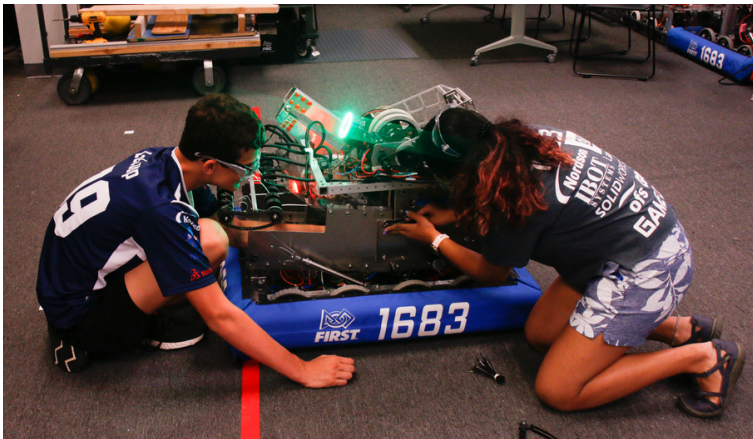
WAYS TO SUPPORT OUR TEAM

- **Financial** - Money goes toward robot construction, competition fees, outreach, prototyping, and competition travel.
- **Mentorship** - Allows students to interact with professionals and learn from them throughout the season. Provides the promotion of STEM to everyone on the team by attending team meetings and build sessions.
- **In-kind donations** - Include services such as machining or parts donation. Donations are key to manufacturing the robot. Any combination of the above categories or any type of support and/or amount of sponsorship is much appreciated.

SPONSORSHIP BENEFITS

Sponsorships are not one-way affairs; the Techno Titans return the favor. Benefits of sponsorship:

- Increased brand recognition.
- The team proudly recognizes its sponsors on the robot, team apparel, and at *FIRST®* competitions.
- It is an investment in the future, as our team trains potential employees.
- It is tax deductible.



SPONSORSHIP TIERS

We value help in any way, shape, or form from our sponsors. This can be done through money, but it does not have to be illustrated in monetary value. Donations can be any form of support, even a mentorship. In fact, if a mentor is provided, you are already a **Gold** level sponsor.

DIAMOND

For donations \$3000+: all benefits of **Gold** plus company logo displayed on robot

GOLD

For donations \$1500 - \$2999: all benefits of **Silver** plus company logo on t-shirt

SILVER

For donations between \$1000 and \$1499: all benefits of **Bronze** plus company logo displayed in pits during competitions

BRONZE

For donations between \$500 and \$999: company logo on handbook, brochure, and website

CONTACT INFORMATION

The Techno Titans believe communication is key to building and improving our sponsor-team relationship. For any questions or concerns regarding our sponsorship details, please contact us.

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