

SOUPer BOTS

Team 203

2018-2019

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Introduction

Year Established

SOUPer BOTS, Team 203, was established in January 1998.

Executive Summary

Team 203 is a jigsaw puzzle. Each of our members are contributing pieces to the broad picture of teamwork and unity to accomplish a common goal. Together we aim not only to succeed in our competitions, but to motivate our members to explore their opportunities in the fields of science, technology, engineering, arts, and mathematics (STEM). Before the start of the build season, we focus on spreading the word of FIRST in and outside of our school. Our team provides after-school workshops, robot demonstrations, and training in all aspects of our team. Through this process our team has impacted the academics of our school, the attitude of our communities, and strengthened our minds to confront challenges that may appear.

Team Motto

“Uniting future generations of STEM”

Mission Statement

To provide a challenging learning environment in science, technology, engineering, arts and math, “gracious professionalism,” and out of the box thinking, which maximizes individual potential and ensures students are well-equipped to meet the challenges in the world around them. We motivate our members by encouraging them to explore all aspects of our first team; thus creating an unbreakable bond between students, mentors, and the world of first to meet the challenges of the 21st century.

FIRST Mission Statement

“Our mission is to inspire young people to be science and technology leaders, 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.” -FIRST® website (www.usfirst.org)

Member Benefits

- Students
 - Support from fellow peers
 - Develop leadership, communication, and teamwork skills
 - Gaining hands on experience
 - Friendships
 - Expanding their comfort zone
- Mentors
 - Watching students grow and develop as they progress throughout the years
 - Students coming together to problem solve
 - Grow as a leader by guiding students
 - Continued education
 - Obligatory criticism
- School
 - Students advance in academic subjects
 - Brings together the schools diverse career shops
 - New STEAM oriented career shops are introduced
- Sponsors
 - Publicity

Team Overview

Basic Team Facts

Rookie Year	1998
School Affiliations/Location	Camden County Technical School from .Sicklerville, NJ
Team Demographics	60 members total 21 girls and 39 boys 2 school, 28 towns 35% of the team is female
Mentors	Mr. Andrew McAlpin Mr. Anthony DePrince Mr. Alan Norton Mr. John Kammler Mr. Sean Reed (Campbell Engineers) Jennifer Ettore and Sean Balbirer (Lockheed Engineers) Andy Brownlow and Timothy Barr (Parent Volunteers)

<p style="text-align: center;">Sponsors</p>	<p style="text-align: center;"> Campbell Soup Foundation Lockheed Martin Camden County Technical School Summers Quality Services The Gibson Tarquini Group Bach Design Group CCTS FIRST Robotics Family Boosters Association </p>
<p style="text-align: center;">Website/Social media</p>	<p style="text-align: center;"> Website- www.team203.com Facebook- FIRST Robotics 203 -CCTS Snapchat/Instagram/Twitter- frcteam203 YouTube- FIRST Robotics Team #203 Email- frcteam203@gmail.com Blog- cctsfirst.blogspot.com </p>

Team History

Team 203 learned about the FIRST competition through our partnership with Campbell's Soup and Siemens' Electronics in 1997. We have strengthened our team through a partnership with Garvey Corporation, who supplied us with technical and financial support. As the years progressed for our team, the numbers of members steadily increased as the word of our robotics team made its way around the school. Each year, our team focuses on member involvement with the creation of every aspect of the team during the build season, such as, the creation of parts, imagery, business, CAD, programming, and volunteer work. With the wide range of aspects of branches that create this team, we encourage the diversity to spread between our members.

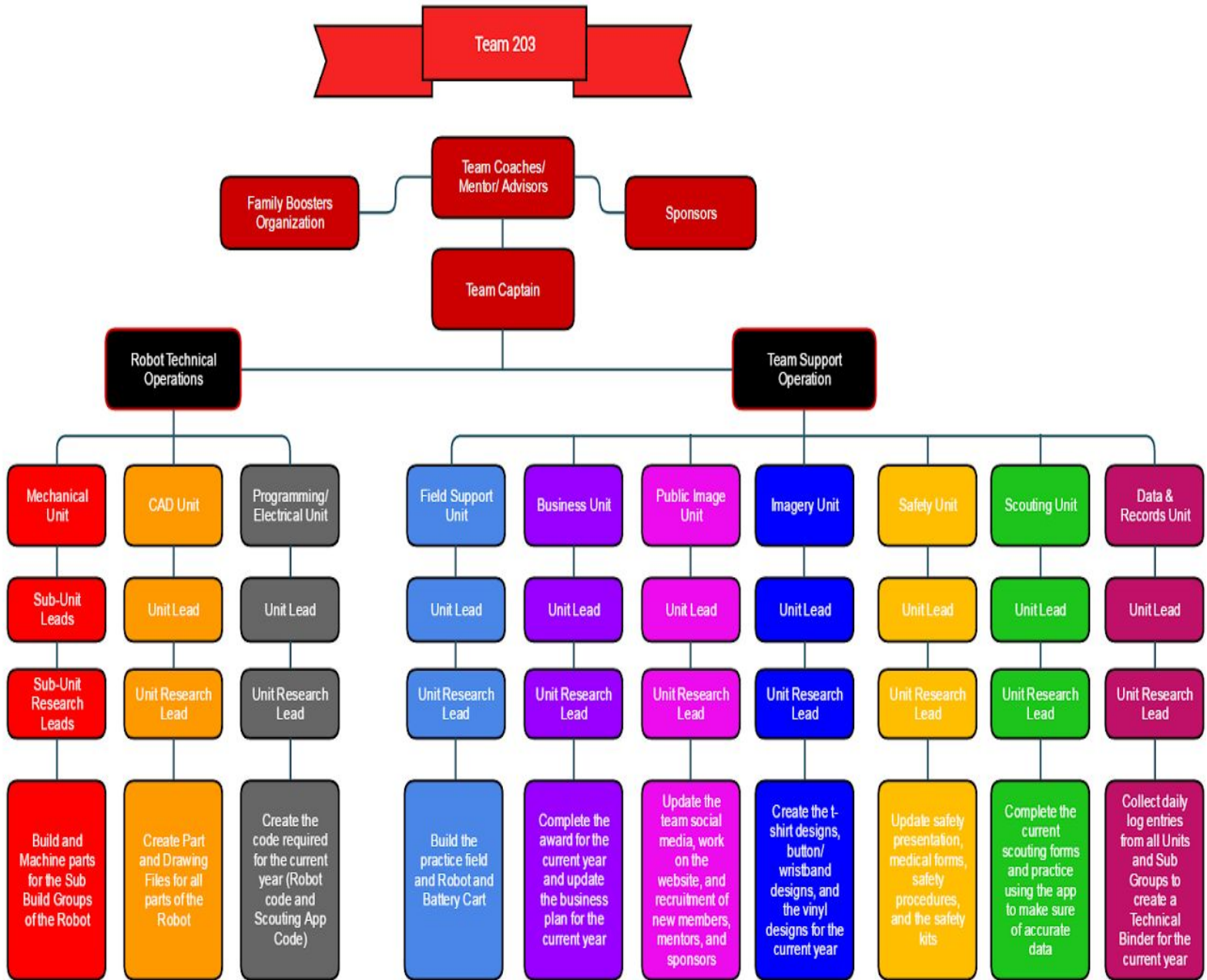
Team Goals

1. Short term
 - a. Increasing our community outreach
 - i. Volunteer work
 - ii. School visits
 - iii. Steady social media
 - b. Create offseason workshops
 - i. Teach programming
 - ii. Teach engineering
 - iii. Autodesk Inventor
 - iv. Find creative ways to promote safety
2. Long term
 - a. Expand the FIRST program into becoming a varsity sport
 - b. Host a season FRC Competition for the MAR District

Team Values

- Perseverance
- Leadership
- Enthusiasm
- Gracious Professionalism
- Sportsmanship

Managing Our Team



Building a Team

-Recruiting

We participate in our school's biannual open house. At this event, we have our own booth where we present information about our team, hand out brochures, and conduct robot demonstrations. Our veteran team members reach out to students who are enrolled or interested in enrolling in our school. They serve to inform these students about the benefits of becoming a member of our FRC team, and have the chance to speak to our mentors and ask any questions. The team also hosts "tryouts" where prospective members may explore the different subgroups of the team, they are also interviewed by the mentors to assess the student's unique skills, enthusiasm, and commitment to the team.

-Engaging our Members

At the beginning of the season, the team separates into smaller groups to discuss strategies/game plans for the newly revealed game. Afterward each team gathers again to present their ideas. The beginning of each work session during the season begins with each subgroup describing what they plan to do during the session and how they plan to go about it, then once again at the end of the work session the groups come together to show the team what they accomplished, and what they plan for the next meeting.

-Training

- Workshops

Team 203 hopes to build members who are well-rounded. We want to offer them the opportunity of doing every aspect that makes up our FIRST team (scouting, design, building, programming, business, and most importantly social skills). In order to increase the involvement and productivity of our members we host workshops during the pre-season. During these workshops our members are able to learn about other sub teams that they may have not joined the season before. They learn how to do these other jobs with the help and guidance of our mentors and senior members. These workshops are then continued when the season begins but are now directed towards the new members. Now all members and mentors are able to serve as teachers to the incoming members. Thus, increasing the productivity of the team and allowing the team knowledge to be passed on.

- Mentoring

A team does not only consist of the hard working students but also the mentors who assist them on every challenge. The mentors on team 203 are an essential part of our success. They provide us with enough freedom to explore our ideas while also ensuring that we remain focused. When the students are unsure of how to eliminate a problem our mentors present us with alternative solutions. They give us constructive criticism when checking over our completed assignments. They do not correct our mistakes rather they challenge us to find the flaws and fix them. Our mentors do not give us answers, they give us the motivation to search for them.

- Senior Members

The senior members of Team 203 spend their last year passing on their knowledge. They begin to look for those younger members whom they believe have the potential to step up after their graduation. When passing down their positions, senior members look for hard-working, dedicated, motivated, and optimistic members. Besides that they look for members willing to tolerate their fellow members even when mistakes are made, and even members that stay on task and will listen to others. During the season senior members step up by stepping down. They do this by allowing the next generation of members to take on more responsibility with the teams decisions. In addition, to that the senior members become mentors for the younger members.

- Tuesdays with Team 203

These Tuesdays were for any member on our team to have the opportunity to learn about the other divisions. Since it was off season, veteran members had more time to answer their questions and give them hands on experience in a division they have interest in. The day also consisted of everyone pitching in to clean up the workspace and brainstorm about the upcoming season. Team leaders meet in order to discuss ways to improve on the communication between divisions and the overall organization of the team.

- Vex Robotics Competition (VRC) Teams

Our VRC teams were created during the conclusion of the 2015 competition season. It offers robotics on a smaller scale for those who might be new to the experience. The newcomers have a chance to learn skills and critical- thinking techniques that will ease them in their transition to the FRC team. Veteran members also act as mentors to these teams and promote the teams' understanding of the mechanics of the FRC team.

-Team Expectations

On Team 203 we have a variety of expectations for this team, some of which include their cooperation, attitude, and also their presence. For instance, during the probationary period it is recommended that the new members of this team come at least twice a week. Not only that but we encourage our members to attend as much as possible to maximize and increase their knowing of what the team is accomplishing, but also know how we are doing it. While having the best attendance does not guarantee that you will be the first considered when an opportunity becomes available, members should be participating not only by hands on but also through observations and demonstrations when they are present. Members should not expect to be given instruction rather they should recruit themselves to someone who is experienced in an area of their interest. Along with presence and cooperation (changed) members should present themselves with a positive and ready to learn attitude in addition to learning and improving from their mistakes when made rather than turn their back on them. Lastly attitude, attitude is also reflected through the actions of returning and graduated members for they must be obligated to understand that new members will go through a lot of trial and error but they must remain calm and guide them through it.

-Location

Team 203 worked in an unoccupied classroom before relocating to the school's unused machine shop due to the increasing number of members. The success of our team after relocating to the machine shop was influential in the school's decision to remodel the room, repurposing the space into a Pre-Engineering workshop. The new instructor that was hired to teach the shop has contributed much time towards training our team to properly and successfully use the machine shop to our advantage. In addition, our graphics team frequents the school's print shop, which allows them to use advanced software and machines (such as Adobe Photoshop, Illustrator, and Vinyl Cutter) to develop designs for the team's t-shirt, logo, and robot decals.

Off-Season Events

At off-season events, we are given the opportunity to form new bonds with other teams and learn about **their** progress and accomplishments. Through this communication, we build alliances with the other teams, but more importantly, we develop new friendships with their members. Not only do the off-season events serve as a place to network, but also a place for improvement. Reusing our previous robots at these events allows us to reflect on our successes and acknowledge our mistakes, which betters the team for the following build season. Our business team is able to inquire about ideas, suggestions, and feedback regarding a proper approach towards achieving chairman's award and developing a business plan. Currently, our robotics team participates in four off-season event, but the expansion of the team will allow us to attend additional events each robotics season.

-Dual on the Delaware

Dual on the Delaware is an off-season event that we have attended for the past 4 years. This event is held at Salem Community College in New Jersey, and hosted by Teams 365 and 316. We compete amongst 30 other teams from the Mid-Atlantic region at this event, both for the best performance in the local championship and for the spirit award; the latter of which we have won on two previous occasions. Being a participant these events has helped us expand our contact with other teams from the FLL and FRC league.

-GirlPOWER

GirlPOWER is an off season competition that our team competed in for multiple years. The event gave the female members of the team a chance to take control of the robot. In order to be able to compete in this competition, the teams had to have an all-girl drive team. This was a wonderful opportunity for the team to support the female members of our team and encourage them to branch out to different aspects of FRC. From drive team, to the pit crew, to the heavy lifting, they stepped up and completed their tasks perfectly. Many teams attended the competition, including the hosting team 433, the Firebirds. In 2018, we were able to have an all-girl pit crew as well, and our team worked fantastically together enabling us to take home 2nd. Place for the first time in our team's history. Many parents and members came to watch them compete even though off-season events do not attract as much attention as the seasonal events a good amount of people did come to cheer the female drive teams on.

-Hatboro Havoc

Hatboro Havoc is an offseason event that we just started competing in this past year. The event, hosted by Team 708, Hatters Robotics, allows us to practice and introduces the new members of our team to the FRC Community. We competed with a large variety of teams from the area, mainly the Mid-Atlantic District at the competition, allowing us to become friends with other teams and to grow a stronger bond with not only them but the community.

-SOUPer Bowl

The SOUPer Bowl is a new offseason event that our team is hosting this year on June 2nd for the first time in our team's history. We encourage all teams in the Mid Atlantic District to attend, and put it on our website for the teams we aren't able to reach in person. It provides other FRC teams a chance to get more practice and grow bonds with others, just in a different location that makes it available for other teams to participate in the offseason hype. Our offseason competition also serves as an opportunity for teams to test out newer members for different roles to replace those lost in the previous year's senior class, and a chance for new parents to the program to experience what a competition during the regular season will be like. The event also provides our team's Parent Booster Organization a chance to raise the team more money through the sale of snacks, beverages, and competition merchandise furthermore allowing our team to put more resources into our outreach in the community.

Community Outreach

Camden County Technical School recruits students from 45 elementary/middle schools from within the county. Because we are a technical high school, we have the unique opportunity to involve ourselves in various career fields. We have even established our first Pre-Engineering career program around the year 2000, followed by our Information Technology academy in 2009 and the Medical Arts academy in 2010. Our second Pre-Engineering career program was created in 2013. Our Sister Campus in Pennsauken, recently implemented a Pre-Engineering program, and under our tutelage have created their own FRC team, 6921. Throughout the season, our team mentors them, and assists in their comprehension of creating and actualizing their designs and business plans. We have also begun mentoring 7024, a new FRC team from Egg Harbor, NJ, and assisting 7110, from Haddon Heights, NJ.

-STEM Camp

During the summer of the 2015 year, our team started a S.T.E.A.M (Science, Technology, Engineering, and Math) summer camp for children in grades 6-8. The camp was a one week program and was offered at our school's Gloucester and Pennsauken campuses. The participants were taught engineering techniques such as, the famous "Engineer Design Process" to design and build a robot using Vex parts. Team members in the Information Technology Academy at our school, took a role in teaching the kids how to take the robots they've designed and built through their newly acquired engineering skills, and taught them the logic and methods of programming it to do what they want it to do. Each child was also introduced to the competitive yet professional elements included with F.I.R.S.T. competitions, as they were given one week and then competed in an actual FTC challenge using the robots they made from scratch. Overall, the summer camp was a great experience for everybody who attended it, as well as our team members who volunteered. The children were very proud to show their parents the robots they built and explained to them what they had learned during the week. At the same time, team members enjoyed interacting and teaching the kids whenever they became stuck, with little to none mentor involvement or guidance. The camp was a huge success and as a team our hope will be to continue to offer programs such as this to middle school level kids, and open their minds to science, technology, engineering, art, and math.

-NJSBA Convention

Our team was invited to the NJSBA (New Jersey School Board Association) convention during the fall of 2015. Being part of the convention's I.S.T.E.A.M section gave us the opportunity to spread the message of our team, our school, and the world of FIRST. We separated some of our junior and senior member over the span of the convention to represent our team at the convention each day. Our members talked to school board members from all across New Jersey, informing them about how the FIRST Robotics program works. In addition, many of these school board members and teachers wanted to know how they can start a FIRST team of their own at their school or school district.

-Boy Scouts

On November 10, 2016, the team hosted a nighttime robotics workshop for a local boy scouts troop. The troop members were told about our F.I.R.S.T team and about the mechanics of our robot. These children also presented us with posters they made themselves about their knowledge of robotics. Members of our team broke them up into 5 groups to finish building robots that were started by Our VRC teams. Once they completed their robots, the member assisting each team brought them to a pre-constructed field to compete against one another. Each child on the team was given a chance to drive their robot and race the other team's bot in the obstacle course.

-Girl Scouts

On December 16, 2018 Team 203 had session that allowed Girls Scouts to earn S.T.E.A.M based patches. The session were for Daisies, Brownies, and Juniors. The patches were for either building, programming, or robotics. Team 203 will be hosting more of these sessions to offer the chance to allow younger girls to be involved in STEAM.

-Tech Challenge

In 2016, The FRC team was permitted to host a "Tech challenge" for young middle-schoolers' in which they must engineer a unique device with the parts given and catalogue their process and data in an engineering notebook. They must then compete for multiple awards such as overall performance, engineering notebook, and safety. This event is to nurture future generations' interest in the STEAM field and reward teams not only for a functional creation, but also proper documentation in their engineering notebooks which are important in S.T.E.M careers and safety. We have continued to host Tech Challenges since.

-The Biannual Yard Sale

At our school's biannual yard sale, our team contributes to the community event by running a car wash, accepting donations in any denomination. Our parent booster association buys a booth space so that they sell donations from team member to help support the students. Not only do we make people's days (and their cars) shine, but we also benefit from the fundraising opportunity that the yard sale provides. Towards the end of the yard sale, a handful of members from the team walk around to each booth asking for their unsold clothing. These clothes are donated to the local goodwill or are donated for disaster relief at the end of each school year. The team hosts the clothing drive year around, asking parents and students to drop off any no longer wanted clothes to one of our pre-engineering classrooms.

Operational Plan

Tasks and Work Units

Before, during, and after the season, our sub-units set milestones they want to complete throughout each year. These projects are updated yearly and are as follows for the 2018-2019 season:

Mechanical Unit	<ul style="list-style-type: none"> ● Build a Robot that is: <ul style="list-style-type: none"> ○ Efficient ○ Lightweight ○ Fit for the current competition ● Train First-year Builders
CAD Unit	<ul style="list-style-type: none"> ● Create all parts on the robot in CAD ● Create labeled drawing files for each part ● Teach new members how to use CAD
Programming/ Electrical Unit	<ul style="list-style-type: none"> ● Create the code for the Robot <ul style="list-style-type: none"> ○ Autonomous and Tele-Operative ● Teach new member how to build code ● Build the code for the new scouting app
Business Unit	<ul style="list-style-type: none"> ● Complete Award: <ul style="list-style-type: none"> ○ Chairman's Award ○ Entrepreneurship ● Update Business Plan ● Teach new members the award process and the business plan
Public Image Unit	<ul style="list-style-type: none"> ● Update social media: <ul style="list-style-type: none"> ○ Facebook ○ Twitter ○ Instagram ○ Google+ ● Recruitment of: <ul style="list-style-type: none"> ○ Sponsors

	<ul style="list-style-type: none"> ○ Members ○ Mentors ● Volunteer work ● Spirit Committee ● Website Design
Imagery Unit	<ul style="list-style-type: none"> ● Create designs for: <ul style="list-style-type: none"> ○ This year's T-Shirt ○ Buttons/ wristbands ○ vinyl for the Robot ● Improve team logo ● Merchandise
Safety Unit	<ul style="list-style-type: none"> ● Update <ul style="list-style-type: none"> ○ Medical Forms ○ Safety Procedure ○ Battery Spill Kit ○ First Aid Kits ○ Other Essential Safety Equipment ● Teach members safety procedures ● Create safety handouts for other teams
Scouting Unit	<ul style="list-style-type: none"> ● Complete and update scouting app ● Train members on the scouting app for the current game
Data & Records Unit	<ul style="list-style-type: none"> ● Collect and log daily information from all units ● Combine entry logs to create a technical engineering binder for the current season
Field Support	<ul style="list-style-type: none"> ● Construct : <ul style="list-style-type: none"> ○ Practice fields ○ Battery Cart ○ Robot Cart

Team Goals

Build

Goals:	Responsible:	Due Date:
Build a chassis that meets the field and robot requirements.	Chassis	Done by Week
Build an intake system that efficiently achieves the objective.	Cargo	Done by Week
Build a hatch system that efficiently achieves the objective.	Hatch	Done by Week
Analyze and strategize the most efficient way to climb and communicate it to other teams.	Habitat	Done by Week
Plan out and give a layout of how the robot can work and communicate it to the other teams.	CAD	Done before robot build
Build a field a practice field and strategize the best course of actions to play the game while networking with the other teams.	Field	Done before robot's completed

Programing

Goals:	Responsible:	Due Date:
Successfully program for the specific tasks and goals of the game.	Robot Programming	Complete before the end of the 6 week build period
Makes sure our cameras and sensors are working correctly and are ready for use.	Vision Development	Complete before the end of the 6 week build period
Ensures our equipment is working correctly and will work the way we need it to when it should.	Hardware/Electrical	Complete before the end of the 6 week build period
Develop and train members to correctly use our scouting app to record data on our team and others for analyzes and strategic purposes.	Scouting App	Complete before the Hatboro-Horsham Event

Administrative

Goals:	Responsible:	Due Date:
Present our team's efforts in outreach towards the community.	Chairman's Group	Demonstrate at the FRC competitions
Create paraphernalia and other objects to successfully boost team spirit and support the team.	Spirit	Complete before the Hatboro-Horsham Event
Create a business plan that successfully presents our team's organization.	Business Plan	Complete before the Hatboro-Horsham Event
Edit previous website to better portray our team and keep people updated on our team.	Website	Complete before the end of the 2018-2019 season
Create team merchandise that represents our team and sets a basis of our design.	Shirt/Logo Design	Complete before the Hatboro-Horsham Event
Creating a successful Chairman's video that represents our team, what we do, and spreads the word of FIRST.	Video	Complete before the Hatboro-Horsham Event
Provide a safe and comfortable work space	Safety	Demonstrate at the FRC competitions

Marketing

Target Audience

Potential Members

Our FIRST Robotics team regularly hosts school visits for prospective students to view the FIRST Robotics program in order for them to experience what working for the team would be like. Members talk to their friends about things that happen throughout the season regularly, sparking their interest into knowing more about the program and how to join. We also gain interest in potential members through our school's pep rallies where we demonstrate the robot and shine a light onto the program. In addition, we have plans for more visibility of the FIRST Robotics program at the school are currently underway. Two of those plans are already underway by have FIRST papers hanging up around the campus, and decorating a display case in one of the buildings.

Administration

Becoming more professional in regards to working with our school administration has allowed school administrators to take our program more seriously. Because of the respect administrators have for the FIRST Robotics program, the school works with us more. They provide us with teachers who are interested in this program and want to help mentor our team. The administration also provides us with funding to continue competing and inspiring students involvement in STEAM.

Sponsors

Our team keeps our sponsors regularly informed through our blog, monthly emails, and weekly emails during the build season that get send out. We send out letters to potential and current sponsors asking if they would like to make a donation to the team. Our main sponsor, Campbell's, has provided us with experienced engineers who help us with any technical problems. We have also recently received sponsorship from Lockheed Martin which also provides us with guidance from their engineers. The team regularly invites our sponsors to visit, and receive recognition.

Parents

Parents are given the opportunity to help out FIRST team members whether it be through the actual construction of the robot or through fundraisers. There are many fundraisers that parents create and participate in, including Designer Bag Bingo, car washes, yard sales, Paint & Pour, and Beef & Boogie. Parents help guide our team members whenever they see that we are stuck or if we ask for assistance. They show dedication to our team during our competitions by cheering us on in the stands.

Marketing Mediums

Visiting schools

Team representatives are sent to different elementary and middle schools across Southern Jersey. Our members speak to the students about STEAM and the FIRST organization. Using our most recent robot, the representatives do a demonstration where the students are able to see the mechanics up close. Following the demonstration, the students are able to ask questions they have regarding our team, FIRST, and STEAM.

Imagery

Imagery is a crucial part of any FIRST team. Our imagery is the physical representation of who we are. These graphics distinguish us from the other teams; they make us more eye-catching and well-known among the world of FIRST. Every season, our team creates a new design for our t-shirts, buttons, and the robot decals. These designs focus on the game, the team, and thanking our sponsors for their support. Before and after the season our graphics unit dedicates their time to actualize and compose the team's generic logo and competition design.

Social Media

Our team uses social media to help keep parents, other teams and anyone interested in our team up-to-date on the progress we are making on our robot and other divisions during build season and year-round for our community service endeavors. We also use this to promote the word of FIRST to those who haven't heard about it. On our social medias we give them information on

the upcoming competitions that we are going to be part of. Also, we let them know that they can feel free to email us any questions they have or any sponsoring they want to do for our team.

Word-of-mouth

Spreading the word of FIRST is an important part of any team. One of our main goals is to increase and maintain involvement of our members, their families, friends, and school faculty. This has become easier over the years as we have recruited more members. Much like the childhood game "whisper down the lane", our members begin by talking to those around them. Following these conversations, a network starts to form, expanding the net of our reach to people. Thanks to these interactions between members and those outside the world of FIRST, we are able to promote our competitions, demonstrations, and fundraisers to non-members.

Financial

Sponsors

Our sponsors are one of the main branches that supports our team financially. They provide financial support and offer their time during our robotics seasons.

Currently, our sponsors are:

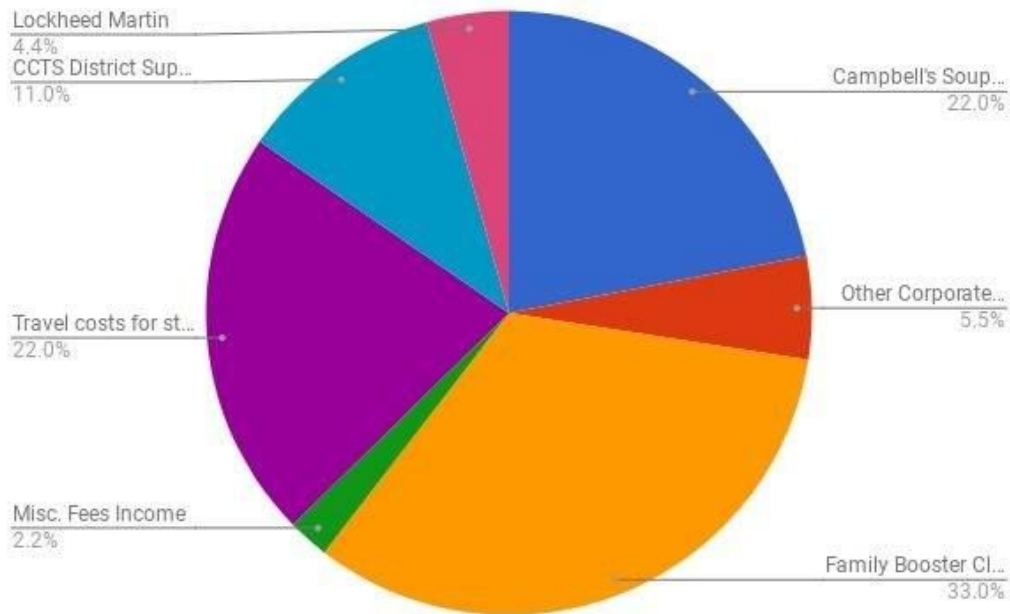
- Campbell Soup Foundation
- Lockheed Martin
- Camden County Technical Schools
- Summers Quality Services
- The Gibson Tarquini Group
- Bach Design Group
- CCTS FIRST Robotics Family Boosters Association

We look forward to communicating with each of our sponsors during each new game season.

CCTS FIRST Robotics Family Boosters Association

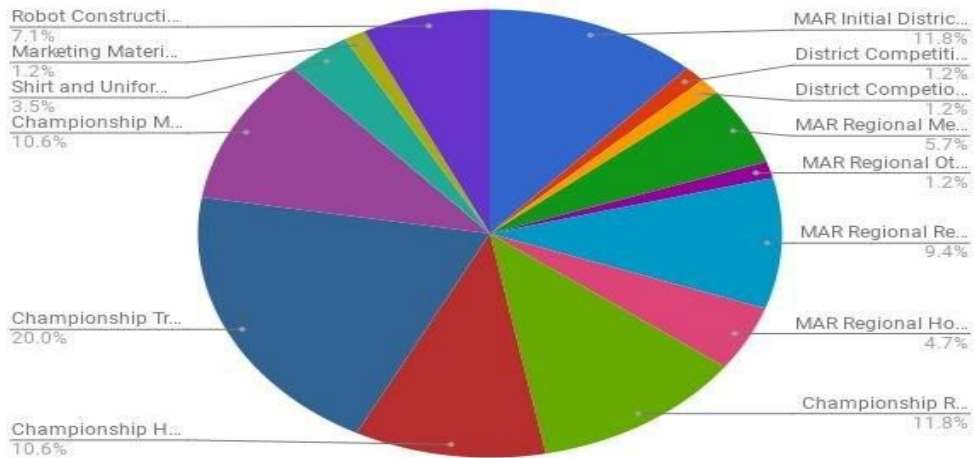
Our fundraising journey began in 2012 when we hosted our first car wash during our school's giant yard sale. That day began with us helping the staff set up for the yard sale, then we would wash cars, and finally help clean up after the yard sale had ended. Payment was not a requirement at the car wash but we did request donations. This event soon became an annual fundraiser for us; it was a team-uniting fundraiser as parents, members, and mentors were involved. The following year parents who had contributed time and efforts at the car wash came together and discussed becoming parent boosters. They began seeking out different fundraisers for us, including selling coupon books and Boscov's coupons. At the next yard sale some parents created pillows out of leftover T-shirts we had from over the years and those were sold at the event. Towards the end of the year, the parent boosters had successfully raised a good amount of money that contributed to paying off some of the team expenses. Due to this success all team parents were summoned again and they discussed formally creating a Parent Boosters Association. One week after the 2014 season had ended the CCTS FIRST Robotics Family Boosters Association was established. A parent council was voted into office and they began planning fundraisers for the next September. Coming back from a long summer, our parent boosters got right to work and began completing the plans for the 2014-2015 robotics year. Currently this year, our parents have completed various fundraisers including Designer Handbag Bingo, Paint & Pour, and a new fundraiser. This new fundraiser was a Halloween themed beef and beer party called Beef & Boogie, where families had the opportunity to fund our FIRST program while enjoying a night of dancing and roast beef. In addition, to these fundraisers our boosters have plans to host another car wash in the spring, alongside a family-fun raffle.

2018-2019 Team Budget



<i>Revenue Source</i>	<i>Amount</i>
<i>Campbell's Soup Foundation</i>	\$10,000.00
<i>Other Corporate Donations</i>	\$2,500.00
<i>Family Booster Club Fundraising</i>	\$15,000.00
<i>Misc. Fees Income</i>	\$1,000.00
<i>Travel costs for students (paid by students)</i>	\$10,000.00
<i>CCTS District Support</i>	\$5,000.00
<i>Lockheed Martin</i>	\$2,000.00
<i>TOTAL Revenue</i>	\$45,500.00

2018-2019 Team Expenses



<i>Expenses</i>	<i>Amount</i>
<i>MAR Initial District Registration</i>	\$5,000.00
<i>District Competition Meals</i>	\$500.00
<i>District Competition Other Expenses</i>	\$500.00
<i>MAR Regional Meals</i>	\$2,400.00
<i>MAR Regional Other Expenses</i>	\$500.00
<i>MAR Regional Registration</i>	\$4,000.00
<i>MAR Regional Hotel</i>	\$2,000.00
<i>Championship Registration*</i>	\$5,000.00
<i>Championship Hotel*</i>	\$4,500.00
<i>Championship Transportation*</i>	\$8,500.00
<i>Championship Meals*</i>	\$4,500.00
<i>Shirts and Uniform Expenses</i>	\$1,500.00
<i>Marketing Materials</i>	\$500.00
<i>Robot Construction Supplies</i>	\$3,000.00
<i>TOTAL Expenses</i>	\$42,400.00

Competitive Analysis

SWOT Chart

SWOT stands for Strengths, Weaknesses, Opportunities, and Threats that apply to our team. The following chart demonstrates our SWOT:

Composite SWOT Chart for SOUPer Bots Team 203 Strategies

Strengths	Weaknesses
<ul style="list-style-type: none">● Supportive alumni● Team unity● Collaboration● Diverse skill sets and backgrounds● Courtesy	<ul style="list-style-type: none">● Communication● Too many members on one sub-team● Cleanliness
Opportunities	Threats
<ul style="list-style-type: none">● Communication● Training new members	<ul style="list-style-type: none">● Careless mistakes● Lack of planning/CAD● Lack of patience

Scouting

In previous years, our scouting team consisted of a manager, 9 scouters, and a messenger. Six of our scouters stay in the stands and each have their own team to follow during each of the matches. They write down the stats of the team onto a slip of paper, then after each match the messenger collects all of the papers and delivers them down to the pit area where they are entered into the computer. Our other 3 scouters are placed into the pit area to get a deeper knowledge of each team's robot's capabilities. They collect the data and give it to the captain to be used during the alliance selection. The scouting manager makes sure that everyone one is on tasks and scouts when a scouter needs to leave the stands or pit. As of 2016, we develop an app to help us easily deliver and organize the stats after each match from the bleachers to the pit area. Every year, we update our scouting app to make it fit for the new competition. This year,

The developed app our team created, was uploaded to the Google Play store and downloaded on all of our scouting tablets. The app collects the data we pug in and uploads it to a excel file, which then calculates the information. This way provides quick automated data for important decision making. Using the app we save on paper and time by not having to use old pencil and paper to record data and do rough quicken math.

*picture

Alumni

Upon graduating, our members have attended the following colleges:

- Camden County College
- Delaware Valley College
- Drexel University
- Georgia Institute of Technology
- Hofstra University
- Massachusetts Institute of Technology
- Monmouth University
- New Jersey Institute of Technology
- New York University
- Princeton University
- Rowan University
- Rutgers University
- Stockton University
- Temple University

- The College of New Jersey
- University of Delaware
- University of Maine
- University of Maryland
- University of North Carolina
- University of Pennsylvania
- Virginia Polytechnic Institute
- Worcester Polytechnic Institute
- York College

Competitions and Awards

- Johnson & Johnson Mid-Atlantic Regional- Daimler Chrysler Team Spirit Award (1998)
- The Championship Event (2000)
- The Championship Event- Imagery Award (2002)
- Johnson & Johnson Mid-Atlantic Regional- Imagery Award (2002)
- The Championship Event (2003)
- The Championship Event (2004)
- Chesapeake Regional- Motorola Quality Award (2005)
- Chesapeake Regional- Regional winners (2007)
- The Championship Event (2007)
- Chesapeake Regional- Underwriters Laboratories Industrial Safety Award (2009)
- The Championship Event (2009)
- Hawaii Regional sponsored by BAE system- Imagery Award in honor of Jack Kamen (2010)
- Philadelphia Regional- Industrial Safety Award sponsored by Underwriters Laboratories (2011)
- The Championship Event (2011)
- Rutgers University FIRST Robotics District Competition- Regional Finalists, Team Spirit Award sponsored by Chrysler (2012)
- Lenape FIRST Robotics District Competition- Team Spirit Award sponsored by Chrysler (2012)
- TCNJ FIRST District Competition- Team Spirit Award sponsored by Chrysler (2013)

- Lenape- Seneca FIRST Robotics District Competition- Team Spirit Award sponsored by Chrysler (2013)
- Mid-Atlantic Robotics FRC Region Competition- Team Spirit Award sponsored by Chrysler (2014)
- MAR FIRST Robotics Springside Chestnut Hill District Competition- Industrial Safety Award sponsored by Underwriters Laboratories, Team Spirit Award sponsored by Chrysler (2014)
- MAR FIRST Robotics Lenape-Seneca District Competition- Industrial Safety Award sponsored by Underwriters Laboratories, Judges' Award (2014)
- MAR FIRST Robotics Springside Chestnut Hill District Competition- Team Spirit Award sponsored by Chrysler (2015)
- MAR FIRST Robotics Lenape-Seneca District Competition- Entrepreneurship Award sponsored by Kleiner Perkins Caufield and Byers (2015)
- Mid-Atlantic Robotics FRC Region Competition- District Championship winner (2015)
- FIRST Championship (2015)
- MAR FIRST Robotics Hatboro-Horsham District Competition- Entrepreneurship award sponsored by Chrysler (2016)
- MAR FIRST Robotics Springside Chestnut Hill District Competition- Excellence in Engineering award sponsored by Delphi (2016)
- MAR FIRST Robotics Springside Chestnut Hill District Competition- Entrepreneurship award sponsored by Chrysler (2017)
- MAR FIRST Robotics Lenape-Seneca District Competition- Chairman's Award (2017)
- FIRST Championship (2017)
- MAR FIRST Robotics Westtown District Competition- Safety Award sponsored by Underwriters Laboratories (2018)
- MAR FIRST Robotics Seneca District Competition- Industrial Design Award sponsored by General Motors (2018)
- MAR FIRST Robotics Hatboro-Horsham District Competition- Quality Award sponsored by Motorola Solutions Foundation (2018)

