

BOCA RATON, FL • 4-H SCIENCE & TECHNOLOGY CLUB
FIRST FRC TEAM # 3932 • DIRTY MECHANICS
WWW.DIRTYMECHANICS.ORG

Business Plan

Team 3932 Mission Statement

*The **mission** of Team 3932 “The Dirty Mechanics” is to foster an inspired and self-sustaining community of mentors and students that collaborate to grow expertise in all things STEM and leadership-related. We are committed to helping and giving back to our supportive community and sharing our expertise and learnings with other FIRST teams. We are committed to building awareness and excitement about what robotics means to the future of our world and recognizing those that are making the biggest impact.*

Organized through the Boca Raton 4-H Science and Technology Club, we welcome students from a vast array of public, private & home schools in our area. Diversity is our strength. We grow in number each year, striving towards a 2:1 student/mentor ratio and 1:1 female/male ratio. With all volunteer mentors, we continuously improve our ability to train team members in all aspects of the design & build process, competition strategy, public speaking & team leadership.

*We provide a year-round program through off-season mentoring in programming, CAD, & build topics to encourage team members become more involved & proficient in designing, programming & building robots. Our **vision** is that we develop capable young technical leaders with hands-on work experience who proceed to higher education (with scholarships based on need or merit), focus on STEM courses in college, land challenging positions or start entrepreneurial endeavors....ultimately advancing society in ways that were never imagined possible.*

*Team 3932 is actively living our mission and vision!
Many team members are preparing for their future with Destination: Deep Space!*

Team Origin

In response to a need for a community FRC team in the Boca Raton, Florida area, 3932 was founded in fall 2011. Children of team founders had previously been involved in robotics at their schools. Yet, when school teams disbanded, families sought new teams for their children. Not finding suitable options, families started their own team. Organized under the Boca Raton 4-H Science and Technology Club, Team 3932 was born. Dirty Mechanics became a true community and self-sustaining team.

Our founders are:

- Ms. Ellen Ferguson, Financial Operations, Organizer
- Mr. David Ferguson, Technical Leader
- Mr. J. D. Potts, Technical Leader and Team Coach
- Mr. Joel Middlebrooks, Technical Leader

Location:

St Andrew's School, Bldg #14, 3900 Jog Rd, Boca Raton, FL 33434

Team 3932 has 48 students and 21 mentors. The team hails from 8 different high schools and 4 home schools from the community. We have more than tripled the amount of girls (14) and tripled our total number of team members (now 48) since our launch. This diversity is our strength. It provides a chance for motivated, local high school students who do not have a school team to participate in robotics endeavors and competitions.

More engineering and business leaders join each year, adding experience and bench strength to current mentors. We focus on a goal of maintaining a 2:1 student-mentor ratio which gives more hands-on training. The team has a very high participation rate, often over 50% a night seven days a week during build season and a very low attrition rate of less than 2%. We have expanded into a year-round program.

Through one of our sponsors, St. Andrews School, we have a small, but stable workspace using their Chapel's Sunday School classrooms. Current challenges to participate include student schedules at various schools, mentor work schedules, obtaining parts, and limited shop space. We have had financial challenges, we've lost and gained sponsors and have had challenges with fundraising. Although team members pay for their own travel expenses, some food donations are provided.

Team Statistics

- 48 motivated enthusiastic students
- 8 different schools and 4 home school groups
- 21 dedicated mentors
- 25 generous sponsors
- And support of parents and families!

Team Member Statistics

Olympic Heights High School	18
Spanish River High School	8
Saint Andrew's School	8
Home Schools	6
West Boca High School	2
Atlantic High School	2
Don Estridge Middle School	2
Boca Raton High School	1
Grandview High School	1
TOTAL	48

Girls	14
Boys	34

Seniors	12
Juniors	9
Sophomores	8
Freshmen	16
Junior Members	3
TOTAL	48

Team Mentors

Our team of 21 volunteer adult mentors is not only experienced in engineering, software and business, but is also dedicated to working with the kids on the team. Our founders continue to work with the team although their children have graduated. Mentors range from software specialists, structural and robotics engineers, EE integration expert, retired software programmers, and college alumni members on their term breaks. Coming full circle, one of our original Dirty Mechanics team member alumni has returned to mentor after college as his new job is in South Florida! Our mentors and coaches bring a well-rounded skill set to the Dirty Mechanics:

- Electrical Engineering
- Structural Engineering
- Software Engineering and Programming
- Robotics Engineering
- Accounting
- Architecture
- Information Technology
- Biology
- Business and Consulting
- Graphic Design
- User Experience
- Public Speaking

Team Sponsors

FRC Team 3932 has been fortunate in receiving the operating funds, facilities, and fabrication of special parts as well as parts and tools from various sources. A number of sponsors are also mentors for the team. FRC Team 3932 has benefited from the generous support of its 2018-2019 sponsors:

- St. Andrew's School
- Rotary Club
- Canon
- KD Construction
- State of Florida (Rep. George Moraitis, Sen. Christopher Smith) & Ken Stolley
FRC 744 Shark Attack
- Aerojet Rocketdyne Foundation & Education Foundation Foundation of Palm Beach
- Tyco
- Duffy's
- Glasnapp Family
- Florida Power & Light
- Stryker
- Henderson Machine
- TRACI.net
- BBM Structural Engineers
- Action Auto-ID
- Lisa Byrne - Coldwell Banker
- Runner's Edge
- M. K. Morse Company
- Boca Bearings
- Home Depot
- Publix
- Inovaxe
- Rugworks
- Fleit, Gibbons, Gutman, Bongini, Bianco
- Signing America

Team Sponsorship Details

Platinum Sponsor

- Saint Andrew's School, Boca Raton (7yrs)
Donation, provided mentors and has graciously provided a workroom and meeting rooms for robot design and construction. The FRC Team 3932 Robotics Facility is a workroom of about 2000 square feet with electricity, water, wi-fi, and maintained restrooms.

Founding Sustaining Sponsor

- Rotary Club, Boca Raton (8yrs)
Donation and provides scholarships to their RYLA Youth Leadership Conference

Gold Sponsors

- Canon Solutions America, Boca Raton. (4yrs)
Donation, provided mentors, S FL FRC Regional sponsorship and volunteers, printed game manuals and team books
- KD Construction, Boca Raton (7yrs)
Donation

Silver Sponsors

- State of Florida: Fla. Rep. George Moraitis, Fla. Sen. Christopher Smith and the efforts of Ken Stolley and his robotics team 744 Shark Attack for their years of effort to make this a reality! (4yrs) Donation towards Regional registration fees
- Aerojet Rocketdyne Foundation and Education Foundation Foundation of Palm Beach, Palm Beach County (4yrs) Donation
- Tyco - Ed @ Johnson Controls, Boca Raton (8yrs) Donation
- Duffy's Sports Grill - Fort Lauderdale, FL (8yrs) Food Donation
- The Glasnapp Family (5yrs) Mentor, Donation
- Florida Power & Light (FPL) (7yrs) Donation

- Stryker, Plantation (1yr) Donation and mentor
- Henderson Machine, Pompano Beach (5yrs)

Generously fabricated special aluminum panels, pulleys, rollers and other customized mechanisms for the robot at no charge to FRC Team 3932

- TRACI.net, Deerfield Beach (4yrs) Donation
- BBM Structural Engineers, Boca Raton (8yrs)
Donation, and provided lead build mentors
- Action Auto-ID, Boca Raton (8yrs)
Donation and provided mentors

Silver Sponsors of Proud Parents

- Lisa Byrne - Coldwell Banker Real Estate, Boca Raton (5yrs)
donation, mentor & provided 5 scholarships to Global Leadership Summit

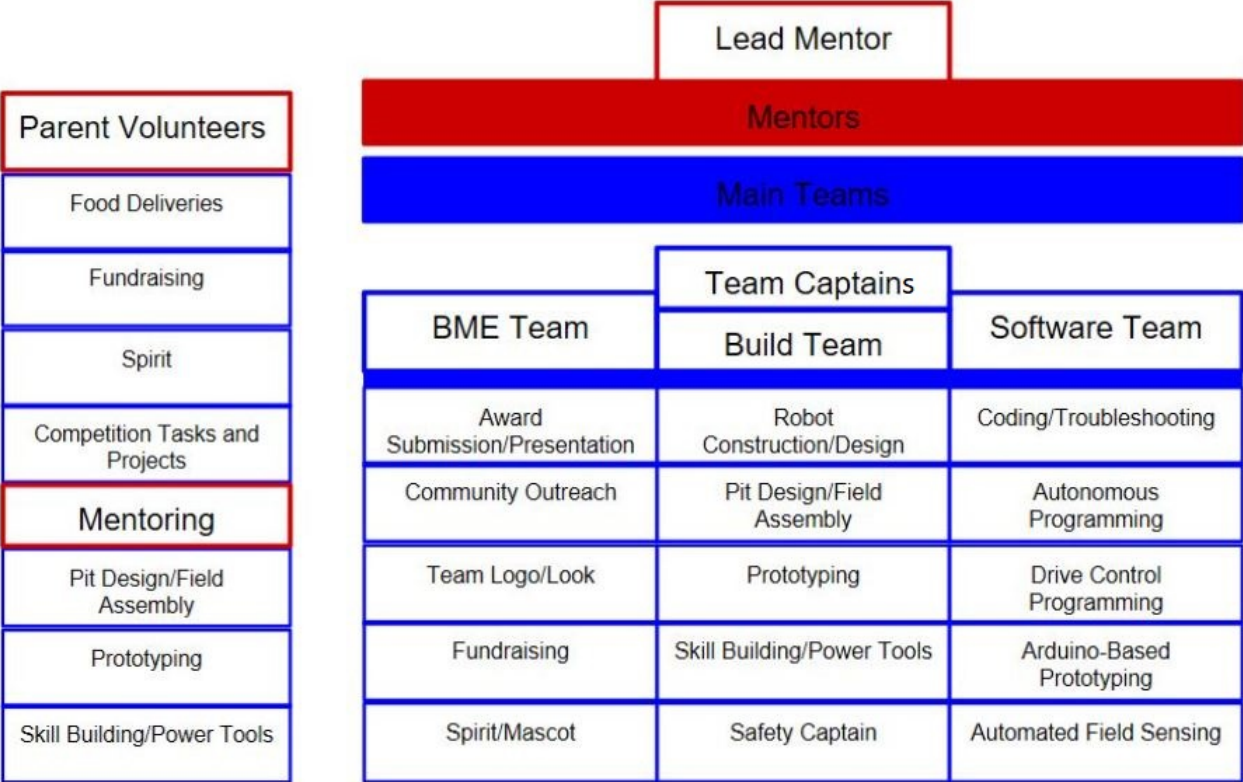
Supporter Sponsors

- Runner's Edge, Boca Raton (8yrs) discounts on T-shirts and imprinting
- M. K. Morse Company, Canton, OH (6yrs) tools
- Boca Bearings, Boca Raton. FL (5yrs)
- The Home Depot, Delray Beach. FL (5yrs)
- Publix, Boca Raton. FL (5yrs)
- Inovaxe, Deerfield Beach, FL (3yrs)
- Rugworks, Pompano Beach (3yrs) Donation
- Fleit, Gibbons, Gutman, Bongini, Bianco - Intellectual Property Law, FL (2yrs) Donation and Intellectual property workshop

Past Sponsors whom we appreciate that have donated money, equipment or mentors. Thank you.

- Slattery & Associates Architects, Boca Raton Mentor (4yrs) and funding
- Modernizing Medicine, Boca Raton Mentor (4yrs)
- Powers McNalis Teebagy Luongo, West Palm Beach volunteer & funding (4yrs)
- The Hirsh Center for Arthritis and Sports Medicine, Delray Beach (3yrs)
Donation & server equipment
- Citrix, Fort Lauderdale corporate donation(1yr), mentors (5yrs),
Sponsorship of S Florida Regional and provides volunteers
- The Robert and Alyssa Sussman Family, Boca Raton
Competition day team dinner (3yrs)
- CJM Construction, Boca Raton Funding (1yr)
- Boca Raton Regional Hospital Foundation, Boca Raton. FL Funding (1yr)
- Spanish River High School Foundation, Boca Raton Funding (1yr)
- Lockheed Martin Funding (1yr)
- The Randy and Amy Dow Family (2yrs) Donation & Parent Volunteers

Organizational Structure



Sub Teams				
Gratitude	IT	Stats	Drive	Project Leads
Permanent Sub Team	Permanent Sub Team	Permanent Sub Team	Competition Only Sub Team	As Needed Sub Team
Come Up With Creative "Thank You"s	Computer Troubleshooting	Design Programs To Organize Scouting Data	Drive/Operate Robots	Projects to Contribute to Larger Objectives
Personalize For Each Sponsor/Mentor	Hardware/Software Maintenance And Support	Use Data To Find Alliance Partner Fit	Match Strategy	Skill Building/Mentor Guidance

Funds are raised through sponsors, fundraisers, donations of money, time and equipment. In 2012, our co-founders established a dedicated bank account with TD Bank under Palm Beach County 4-H Association that monitors all bank statements. In 2015, the State of Florida 4-H established a non-profit 501C IRS Group Exemption, so Palm Beach County 4-H and our club can accept direct donations.

Ms. Ellen Ferguson, Mr. Joel Middlebrooks and Mr. J. D. Potts have check-writing authority for the account. They are responsible for depositing all donations and other income used for team operating expenses. The financial officers welcome independent auditors from any donor to review our financial operations.

Team 3932 has been fortunate in receiving operating funds, facilities and fabrication of special parts and tools all because our students, mentors and parents work to find and engage sponsors.

Through our community activities, demonstration, and dirtymechanics.org website, we continue to attract new members and sponsors for current and future seasons. Any funds raised and not applied toward 2019 FIRST objectives and principles will be applied to 2020.

Team Fundraising

The Team is depending on strong community support for the goals of this ambitious team in this challenging program. Students continue to increase the amount they personally fundraise.

2018-2019

A Fall coupon book fundraiser provided an optional method for students to generate funding for their team dues. Selling raffle tickets for the Rotary Club raised over \$4000 for team.

2017-2018

A Fall coupon book fundraiser provided an optional method for students to generate funding for their team dues and raised \$1000. The team entered and won the FIRST Supplier social media contest and won Robot parts/giveaways to help with this year's robot. Selling raffle tickets for the Rotary Club raised over \$3000 for team.

2016-2017

A Fall coupon book fundraiser raised \$3,600 for 2017 STEAMWorks. We continue to develop more ideas for fundraising. Ms. Amy Dow and Ms Erica Wolgalter, parent volunteers did a great job in their first time organizing this year's fundraising efforts! We also had an opportunity to sell raffle tickets for our longtime sponsor, The Rotary Club, and raised \$2,000 for the club in a week!

2015-2016

A Fall coupon book fundraiser raised \$2300 for 2016 Stronghold. We are to develop more ideas for fundraising. Ms. Daria Wels, a parent volunteer continued to help organize this year's fundraising efforts and is working with new parent volunteers as her son graduates this year.

2014-2015


A Fall coupon book fundraiser raised \$2000 for 2015 Recycle Rush, and a 5 Guys Hamburgers fundraiser in March 2015 raised \$100 for the coming season.

Ms. Daria Wels, a parent volunteer helped organize this year’s fundraising efforts. Two students, Jillian H. and Caleb S. wrote an essay for a 3D printer contest and won an EKOCYCLE 3D printer for the team!

2013-2014

Team 3932’s Wreath Fundraiser was a success and raised over \$700 to benefit the 2014 FRC Aerial Assault Challenge. A parent volunteer Mrs. Sharon Stephenson organized the fundraising effort. Team members did a great job as this was our inaugural wreath fundraiser.

See next few pages for examples of fundraising marketing pieces.



Rotary Club of Boca Raton

1st Prize: \$5,000 Saks Fifth Avenue Shopping Spree
- Available at Boca Town Center Mall ONLY

2nd Prize: One Week at St. James Bay Club, Saint Lucia
- Beautiful Beachfront Tropical Paradise

3rd Prize: “On the Fly” Celebrity Cruise
- Your Choice of Available Cruises—Valid for One Year

Drawing: April 2, 2019

Boca West Children’s Foundation Concert

Suggested Donation: \$25 per ticket / 5 for \$100

Need Not Be Present to Win All Proceeds to Benefit the 25 Granted Charities of Boca West Children’s Foundation

Prizes secured by the Boca West Children’s Foundation, who is solely responsible for their fulfillment.

DIRTY mechanics

FRC Robotics Team #3932
Fundraiser for the 2015 Season!



Support the Dirty Mechanics and
SAVE \$40 at Publix*

along with coupons for stores & restaurants
including discounts on subs, pizza, movies,
and many others!

*Valid at most Publix locations. Terms and conditions apply.

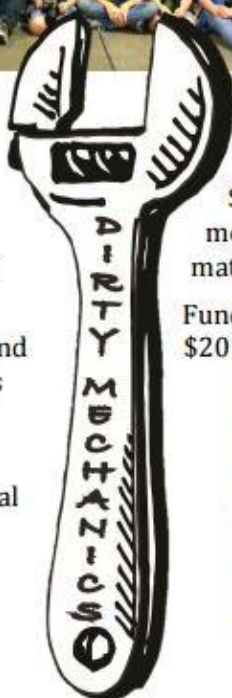


Team 3932 is a community based team. Working under the Boca Raton 4-H Science and Technology Club, highly motivated, local high school students make up FIRST FRC Team 3932 - "The Dirty Mechanics."

Engineers in hardware, software, and structural design, along with adults with various other backgrounds, mentor the students.

We are always looking for additional mentors or sponsors!

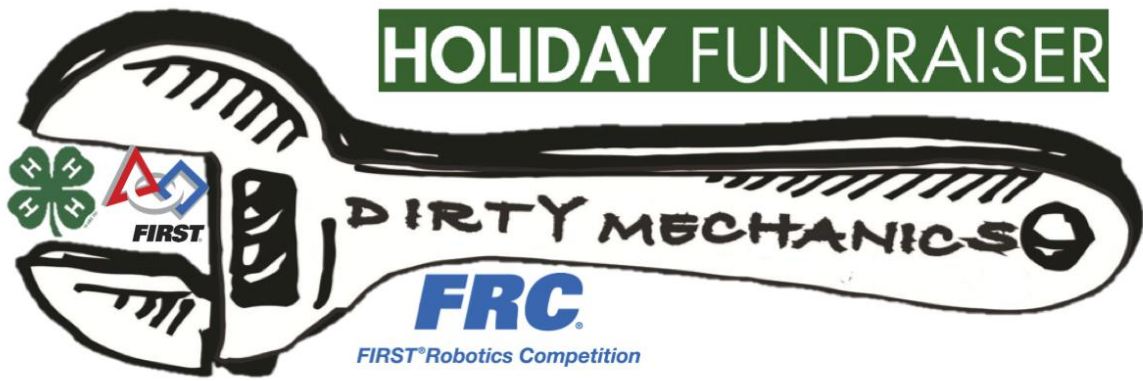
Please email us at
BocaFRC@gmail.com
Or visit our website at
DirtyMechanics.org



Every dollar counts! Our entry fees for our two regional competitions are \$5,000 and \$4,000. We also use additional money for equipment and building materials to construct our robot.

Fundraiser Contact: Daria McNalis
\$20 ea Cash Only 561-479-8198





HOLIDAY FUNDRAISER

Classic

Victorian



25" \$20
 28" \$25
 Spray - \$15 ↗



25" \$25
 28" \$28
 ↖ Spray - \$20



Scan to See a Video About FRC!



Candle
 Centerpiece
 \$19.99



Door
 Hanger
 \$1.75

Checks made payable to
 Palm Beach Cty 4H Assoc./
 Boca Raton Robotics Club

DirtyMechanics.org
bocafrc@gmail.com

Fundraiser Contact:
 Sharon Stephenson
sharwithall@gmail.com
 954-295-2225



Support our Robotics FRC Team 3932, The Dirty Mechanics

Eat at



FIVE GUYS®

BURGERS and FRIES

Wednesday, March 4, 2015

Between 4-8 pm

Must mention “Dirty Mechanics”

Where: **Five Guys Burgers and Fries,**

located in Glades Plaza, near Glades and Butts Road
2240 NW 19th Street, Boca Raton, FL 33431
Phone # 561-368-8384.

What: This is a fundraiser. Five Guys will donate to our team 15% - 25% of whatever they sell to any person **who says that they are there to support**

Robotics Team - Dirty Mechanics

Who: The Dirty Mechanics Robotics team is a community team composed of students from 7 different Boca Raton area private and public high schools, including several home schooled students. **St. Andrews School in Boca Raton** gave the Dirty Mechanics a home on their campus and have become their Platinum Sponsor and Strategic Partner.

Nothing extra to buy or sell. Just come out and have a good time with your friends eating a great meal and meeting the robotics team!!

(Caution: Five Guys uses peanut oil and has open boxes of peanuts)

DirtyMechanics.org

facebook.com/dmrobotics



Relationships

Team 3932 has a strong relationship between students & mentors, Palm Beach 4-H, community partners, and sponsors such as Canon America, Rotary Club, St. Andrews etc. Team members & mentors have engaged community & parent support. As a result 3932 was able to spread out non-technical responsibilities so mentors could spend more time with students on designing, building & programming the robot. More mentors & FRC alumni have joined & bring valuable expertise and committed to having a year round program. This has allowed students to receive training in a variety of areas & they've learned to work together as a team without the pressure of the competition deadlines. New students have a head start on understanding the program and gaining skills.

Demonstrations in the community, schools, & for sponsor events keep the community & sponsors engaged. Our community programming workshops, and FLL volunteer efforts & demonstrations engage & inspire FLL students to move into FRC. This past year Dirty Mechanics team members started a Girl Scout robotics program, assisted with FLL camps at a variety of schools, volunteered at FLL competitions at all levels. Our team mentored the Advent Lutheran school FLL team with their FLL project, helping them prototype a strap-on arm bird feeder from a Lego prototype to 3-D printed creation that had a cup for birdseed and a perch for the birds. Check out the photo in our Community Outreach section!

Working with sponsor Citrix, we've helped start two FLL teams in Agogo, Ghana. We provided FLL supplies & had a "Go to Meeting" video conference at Citrix's Corporate Headquarters with children in Ghana. Team members coached Ghana students to get their robots moving in real-time! We were able to help them build a working robot from parts in 2.5 hours. We have followed up with them by providing additional re-chargeable batteries to continue their program. Citrix financially supports the South Florida Regional and employees actively volunteer.

Our sponsor St. Andrew's School has been inspired to develop a robotics program as part of their Vision2020 strategic plan. They built experiential classroom space with room for FLL tables & robot building in their middle school. In addition, they just finished a new Entrepreneurial Center that includes another robotics workshop. They also allow us to use their Parish Hall/middle school lunch room for robot practice weekends and nights. We hope to continue to work with them to build the program & mentor more students in the future.

Deployment of Resources

Community Outreach

3932 is actively engaging our community to spread the FIRST message.

(see tab for more info)

- Reaching 160,000+, we marched & demonstrated our robots in 6 Boca Raton Holiday parades with **five** robots in 2018, delighting crowds of kids of all ages!
- Reaching 7,400+, we have demoed & presented at local school, community, FLL & sponsor events to the delight of kids, parents, & sponsors.
- At Boca Helping Hands, our local food bank & soup kitchen, we have collected **1,170+ lbs** of Thanksgiving basket food & cereal from our annual cereal drives and volunteered 150+ hours each year over the past 5 years.

FIRST

- We created a “how to” video for the very complex 3 Cim ball shifter gearbox and share with other FIRST teams via our YouTube channel. This is one of the most challenging aspects of robot building and we want to make it easier!
- We created a “how to” video series for building bumpers & bumper covers.
- We inspired our sponsor St. Andrew’s School to build Robotics programs, classrooms, and Entrepreneurship Center that includes a robotics workshop.
- We started a petition for Florida and other states to co-support bill S.2890 - Christa McAuliffe Commemorative Coin Act of 2016. Contacted Senators to set up appointments to present the bill.
- Started and provided FLL kits for two FLL teams in at YIST School Agogo, Ghana. With help of our sponsor Citrix & "GoToMeeting" video conferencing helped students in real time build running Lego robots.
- We’ve volunteered & mentored FIRST Lego League (FLL) at local, regional and Florida state level as well as the Razorback Invitational in Arkansas
- We volunteer at Regional FRC tournaments (Robot Inspection and where needed)

Technical Skill Building

- Working towards a 2:1 Student/Mentor ratio, allowing for greatly expanding student skills
- Older students and mentors have taught younger & new team members how to use power tools as well as wiring, soldering, programming
- Clinics held for drilling, riveting, robot chain building, brakesheer-roller, bandsaws, soldering, wiring
- Students and mentor built 3D printer from scratch
- Mentor gave JAVA Clinic to team members and welcomed other Boca High

NROTC students

- Mentor had GitHub workshop at his office for team members
- Summer programming workshops including OnShape 3-D CAD, Arduino, Raspberry Pi, and Computer Vision
- Intellectual Property attorney taught 35 students/alumni/parents on patent process & how to establish a patent

Leadership Skill Building

- **4H** leadership opportunities & development of critical life skills like Competence, Confidence, Character, Caring, Connection through 4H Model Congress, State & County 4H Council, camps & fairs
- **RYLA** - Sponsor Rotary Club provides 2-4 team scholarships per year
- **Global Leadership Summit** - Sponsor Lisa Byrne/Coldwell Banker provides 5 team scholarships per year
- Student team leaders are mentored as they grow into their positions in addition to “5 min. leadership training”

Team Graduates - Investing in Future

We have encouraged our seniors to apply for scholarships, edit essays, and provide references.

- Seniors have received over \$880K in FIRST and team-related scholarships!
- 97% of Dirty Mechanics have gone on to higher education*
- 90% are enrolled in engineering fields of study & many received scholarships
- 3932 alumni continue to mentor and volunteer with FIRST
- Our alumni are graduating college, landing challenging, well-paying jobs

Future Plans

We will continue to build strong ties with our current and future sponsors. In the near future, we will continue demonstrations at sponsors workplaces and school campuses. We will sustain the spreading of FIRST through community service as well as allowing our sponsors to see exactly what their donations are inspiring - the technical leaders, inventors and entrepreneurs of tomorrow through our spectacularly innovative robots!

Our mentors are committed to continue our year-long program to build our team's skill set earlier and have students prepared and ready to engage in FRC's six week build cycle.

Each year we present for our Rotary Club and they continue to fund us. They have provided spots for our team members each year at their RYLA Conference to develop leadership skills.

We are continuing work in 2018 with our sponsor Citrix to become a mentoring team to the two FLL teams at YIST school in Agogo, Ghana near one of their technical centers in Africa for FIRST international reach!

We have inspired our host sponsor, St. Andrews School, to develop robotics programs. As part of their Vision2020 plan they built an experimental classroom for FLL tables and robot building. This year was the Grand Opening of an Entrepreneurial Center that includes a robotics workshop. Team members hope to mentor in these programs.

Our team will continue to polish the series of Bumper tutorial videos and various technical videos on our YouTube channel and website.

Risk Analysis (SWOT)

The Dirty Mechanics team is composed of **experienced mentors** and **enthusiastic students** that make our team competitive, visible, and alluring. As a community team, we attract students from a **diverse group** schools. We have a **large amount of sponsors**, reducing sensitivity to the influx of sponsors.

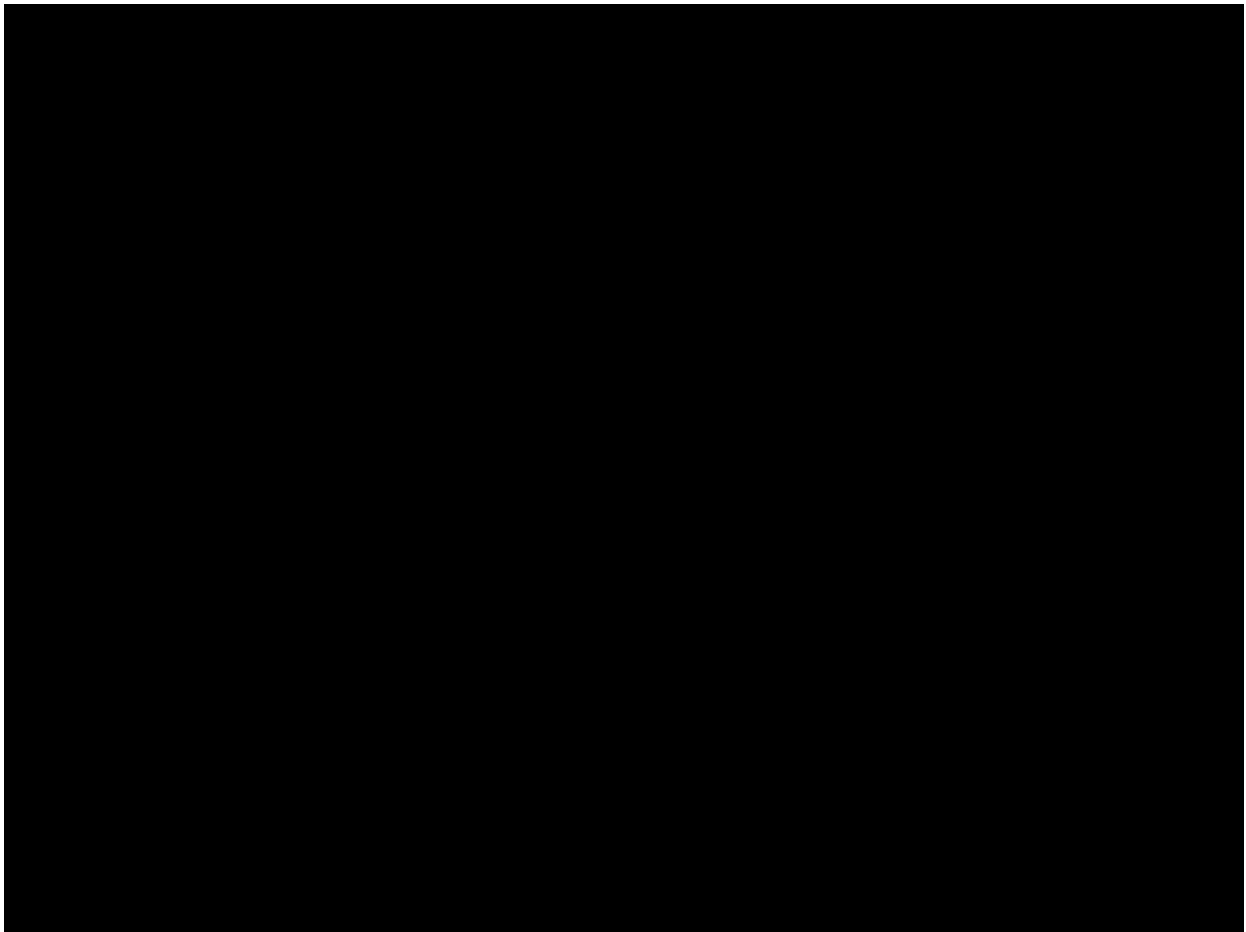
We have three Sunday School classrooms converted to Robotics workshops at Saint Andrew's School/Chapel campus, always needing to expand our building space. We are at **full capacity**, therefore we will not be able to accept more than **50 team members**. Finding enough **dedicated mentors** to accommodate our growth is also an ongoing challenge.

We have the opportunity to continue to help other teams by creating instructional videos. We also want to expand our **community service** to assist Boca Helping Hands, the Boca Holiday Parade, 4H, and local schools and groups focused on developing STEM skills. We continue to network with our sponsors and mentors to provide work experience and scholarships for our students. Saint Andrew's School has been inspired to **develop a FIRST FLL** and FTC program and we will help them build it. Our sponsor Citrix helped us start two FLL teams in Ghana and arranged to forward new re-chargeable batteries we purchased for them to continue their program. We plan to continue to volunteer with FLL and work with our county 4H Youth Director to investigate the possibility of summer 4H FLL Lego camps.

Our biggest threat is **team sustainability**, many of our veteran students will be graduating. We also have a large number of **new students this year** we will have to train to market, build, design, and control the robot for the tournaments.

Team Graduates

- 97% of Dirty Mechanics graduated high school and went on to higher education.
- 90% are enrolled in engineering fields of study and many received scholarships.
- Most 3932 alumni continue to mentor and volunteer with FIRST
- **Scholarship highlights**
 - \$880,000+ in FIRST & Team-related Scholarships & Grants. For example:
 - Sydney L. won S Florida Fair Scholarship(4H)
 - Andrew S. won 1 of 5 FIRST scholarships to Embry-Riddle Aeronautical University plus education grant attributed to having FIRST experience
 - Erin F., won a 4-year full tuition FIRST scholarship to attend Worcester Polytechnic Institute (WPI)
 - Nick M., earned 1 of 5 FIRST scholarships to Embry-Riddle Aeronautical University
 - Timothy M., won 1 of 5 FIRST scholarships to Embry-Riddle Aeronautical University
 - Nick C., earned 1 of 5 FIRST scholarships to Embry-Riddle Aeronautical University
 - Myles B., won the inaugural FIRST FPL NextEra scholarship
 - Daniel R. earned the George Snow Foundation Rotary Scholarship to attend UCF
 - Jillian H., Ben B., Charlie B., Joshua S., Timothy M., Myles B. won 4-H scholarships
 - In addition, many of our team members won engineering and other scholarships and grants for higher education



Team Achievements

2018:

- **Quarterfinalist**, Orlando Regional
- **Quarterfinalist**, South Florida Regional
- **Dean's List Finalist**, (Gabriella R.) South Florida Regional
- **Quarterfinalist**, Mission Mayhem (offseason)

2017:

- **Quarterfinalist**, Bayou Regional
- **Entrepreneurship Award**, Orlando Regional
- **Champion Alliance**, Mission Mayhem (offseason)

2016:

- **FRC Championship Competitor - Archimedes Division (12th of 75 teams)**, St. Louis
- **Champion Alliance**, S Florida Regional
- **Woodie Flowers Finalist (Mentor - David Ferguson)**, S Florida Regional
- **Entrepreneurship Award**, Orlando Regional
- **Finalist**, Mission Mayhem (offseason)
- **4th**, Panther Prowl (offseason)

2015:

- **Finalist**, Mission Mayhem (offseason)
- **SemiFinalist**, Panther Prowl (offseason)

2014:

- **FRC Championship Competitor - Curie Division**, St. Louis
- **Champion Alliance**, S Florida Regional
- **Semifinalist**, Orlando Regional
- **Florida State FLL Outstanding FRC Supporter Award**

2013:

- **Semifinalist**, S Florida Regional
- **Judge's Award**, S Florida Regional
- **Daily Safety Award**, S Florida Regional
- **Semifinalist**, Orlando Regional
- **Judge's Award**, Orlando Regional
- **Daily Safety Award**, Orlando Regional

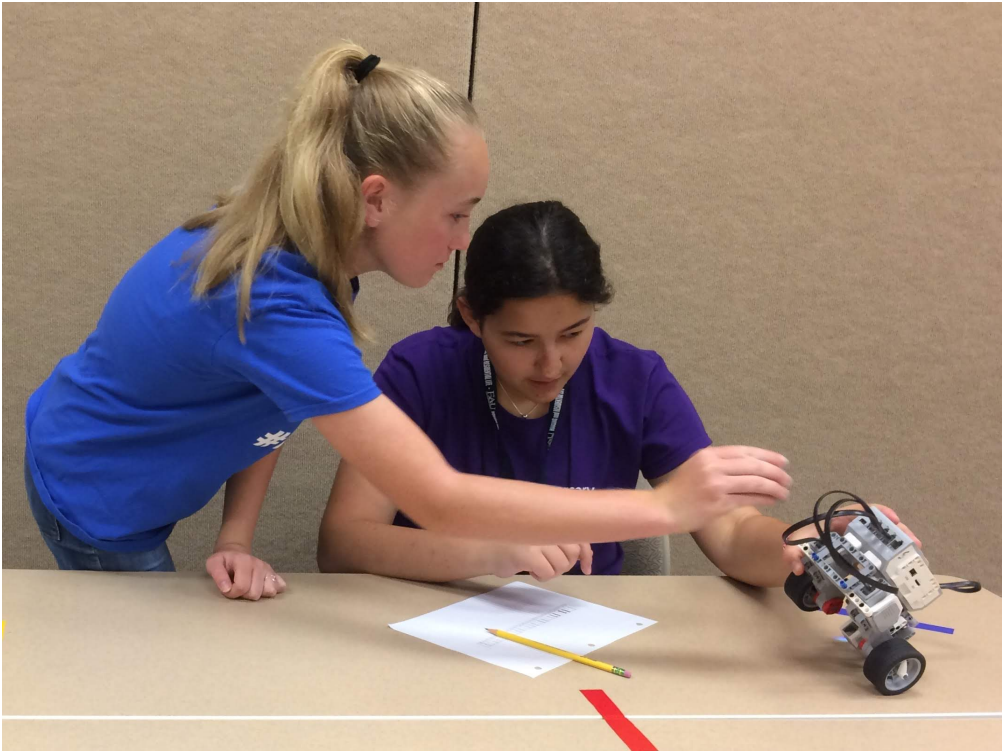
2012:

- **Quarterfinalist**, S Florida Regional
- **Highest Rookie Seed Award**, S Florida Regional
- **Rookie Inspiration Award**, S Florida Regional

Photos



St Andrews Concert Band with 3 robots “dancing” to the “Machine Awakes”



Team member Morgan volunteering at AAUW summer camp



Boca Raton Holiday Parade with 5 robots! First place walking group!



Team member Riley volunteering at FLL tournament



Team member Morgan winning FLL Volunteer Award at Razorback Invitational



Team sisters Gabriella & Olivia with their Do-si-Sobots Girl Scout group





Team members Riley & Morgan volunteering at FLL Razorback Invitational



Team member Morgan volunteering as referee at FLL tournament