

BOB 319

2025 Business Plan



PRESENTED BY **HAAS**
Gene Haas Foundation

FIRST
ROBOTICS
COMPETITION



Prospect Mountain High School
Alton, NH

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EXECUTIVE SUMMARY

Mission Statement

Our mission at FRC 319 is to openly share resources with ingenuity, originality, and resourcefulness while encouraging the personal growth of our students and their ability to recognize and be proud of their incredible capabilities.

Program Summary

FIRST was founded in 1989 to inspire young people's interest and participation in science and technology. FIRST designs accessible, innovative programs that motivate young people to pursue education and career opportunities in science, technology, engineering, and math, while building self-confidence, knowledge, and life skills.

The mission of FIRST 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.firstinspires.org)

Relationships & Information Regarding Current Sponsors

Our sponsors contribute their thoughts and ideas, so that we can learn from their expertise. Each June we host an appreciation dinner where our sponsors can drive our robot, hear about our season, and meet the students that they help with their donations.

Summary of Future Team Plans

Apart from our involvement in a wide range of community service initiatives throughout the year, team 319 is committed to advancing the global impact of FIRST. To enhance our outreach endeavors, we continuously seek to secure increased corporate sponsorship and additional grants funded by businesses. We possess the expertise, strategy, and capability to achieve this goal with a proven track record of success.

TEAM OVERVIEW

Team History

Established in 1999 at Alton Central School, Team 319, known as Big Bad Bob, holds the distinction of being one of the longest-standing *FIRST* Robotics teams in the nation. The team has consistently operated as an effective organization under the guidance of Lead Mentor Brian Hikel, along with other dedicated mentors and alumni from the school's community.

A compelling testament to our remarkable achievements was our participation in the 2016 World Championships, where we competed against some of the world's finest robots and advanced to the semifinals. Notably, in 2017, the team earned its inaugural Judge's award, marking a significant milestone.

Undoubtedly, our commitment to excellence continued with an impressive three-year streak. In 2018, FRC 319 clinched victory at the New England District Championship and secured the top ranking in New England. That year, the team also proudly brought home the prestigious Engineering Inspiration award, one of the most esteemed accolades in the world of *FIRST*.

Student Team Members

The members of FRC 319 encompass a variety of backgrounds, hailing from two distinct towns: Alton and (Center) Barnstead, NH. This union has brought together students from diverse communities, resulting in a rich blend of ethnicities, ages, genders, talents, interests, and geographical origins. Within the realm of *FIRST*, these students acquire the valuable skill of collaborating harmoniously as a cohesive team, notwithstanding their disparities. It's worth noting that many of these students actively engage in multiple sub-teams, and our track record reflects a significant number of students who have gone on to pursue STEM majors in higher education.

Team Mentors

Our mentors have over 25 years of direct experience with *FIRST* robotics as well as 10+ years in mechanical engineering employment and 30+ years of teaching experience. They are a dedicated team that work well together to continuously support 319's students.

| | |
|--------------------------|-------------------------------------------------------------------|
| Brian Hikel | 1999 - present Mechanical & Strategy |
| Michael Kelley | 2013 - present Mechanical |
| Ken Gagne | 2023-Present Drive Coach |
| Melissa Catauro | 2018-Present Merchandise |
| Holly Joubert | 2024-Present Mechanical & Drive Coach |
| Shane Joubert | 2024-Present Mechanical |
| Nikolas Neatherly | Student: 2016-2019, Mentor 2021 - present Mechanical, Strategy |
| Alexandra Berry | Student: 2015-2018, Mentor 2018 - present |
| Eric Mercer | Student: 2013-2015, Mentor 2020 - present Programming |

Team Sponsors

| | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPS New England | New England's award-winning team of bridge, highway, transit and marine construction experts. |
| Schneider Electric | Schneider Electric is leading the digital transformation of energy management and automation in homes, buildings, data centers, infrastructure and industries. |
| Podmore Manufacturing | Podmore Manufacturing is an employee-owned company that operates 95 Swiss Escomatic and computer numerically controlled (CNC) Screw Machines in an immaculate 35,000-square-foot facility. The team has grown, too, doubling in size to more than 40 employees since 2010. We bring more than 40 years of single-minded dedication and the finest in computer-controlled micro manufacturing equipment to your project, satisfying strict tolerances and tough requirements for quality. |
| BAE Systems | BAE Systems is a multinational defense, security, and aerospace company known for designing, manufacturing, and supplying a wide range of products and services to military and commercial customers worldwide. They specialize in areas like cybersecurity, intelligence, and advanced technology solutions. |
| Veeva Systems | Veeva Systems is a cloud-computing company specializing in software solutions for the life science industry, offering platforms for managing data, compliance, and customer relationships. Their tailored applications assist pharmaceutical and biotech companies in streamlining operations and accelerating innovation. |
| Meredith Village Savings Bank | MVSB provides a safe, convenient place to save money and help people achieve their financial and personal goals. |
| Alton Centennial Rotary Club | Rotary is a non-political and nonprofit service organization of men and women dedicated to service above self. Its objective is to save and improve lives both locally and globally by raising funds and the members contributing their time and talent to build a more just and peaceful world. |
| Profile Bank | Profile Bank dedicates itself to serving the needs of our surrounding communities. They offer a broad range of financial products and services while providing each customer with the highest level of personal service. |

TEAM STRUCTURE

Team Membership

Participation in FRC 319 demands a year-round dedication. The team is committed to ensuring that all newcomers, as well as their parents, understand the responsibilities associated with being a part of the team. Each year, we conduct a meeting for new team members following the start of the school year, along with an informational session for parents. Presently, our team comprises 14 members.

Team 319 has earned a solid standing within the FIRST community due to the distinct identity we have fostered. As individuals on team 319, it falls upon us to uphold and uphold these principles. We are:

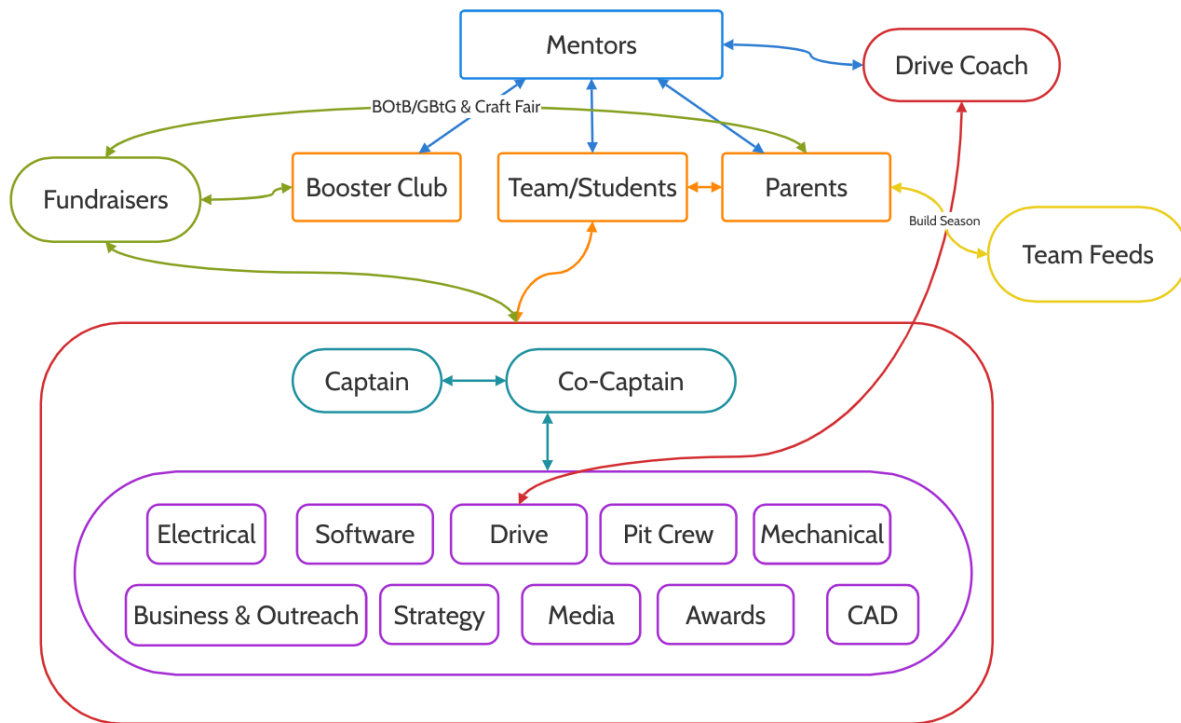
- *Friendly* - At all times, we are a team that is friendly. This includes other students and faculty at PMHS, other teams, event staff and volunteers, and other 319 members.
- *Involved* - 319 members are active on the team, and within the local FIRST community, Alton and Barnstead community, and the greater FIRST community.
- *Competitive* - 319 always strives for excellence on the field as much as off the field. FRC is a competitive sport, and winning feels good.
- *Open* - While we like to win, we recognize that FIRST has a larger purpose of Inspiration. Because of this, our robot and process is not kept secret. In fact, we actively share our team's resources within the FIRST community.

Team Management

Team 319 is composed of three primary groups: students, mentors, and parents. Students form the core of the team and exclusively operate the robot during competitions. Mentors play a pivotal role in facilitating and guiding student activities within the team, while also providing direction to the various sub-teams throughout the year. Parents serve as a crucial support system, contributing by staffing events, providing sustenance during meetings, and participating as mentors themselves.

Team 319 is structured into sub-teams, each led by a student chosen within that sub-team. In addition to these sub-teams, the team also elects two co-captains. Mentors, who share equal importance within the team, offer guidance to these sub-teams. Furthermore, one mentor assumes the role of coach, responsible for guiding the drive team during competitions.

Team 319 receives support from a Booster Club, which manages the team's finances, long-term planning, and asset management.



Electrical

This team is in charge of the electrical systems involved in the robot construction. They apply skills such as creating wiring diagrams, selecting connectors, and honing their expertise in electrical practices. Their tasks encompass wiring the robot, managing the batteries, and setting up any necessary pneumatic systems. Moreover, they play a crucial role in making the mechanical system designs and fabrications controllable

Software Team

The software team is tasked with the critical role of translating the game rules and the robot's capabilities into a winning strategy. This group is responsible for transforming human rules, strategies, and concepts into a format that the robot can comprehend. The software team collaborates closely with all technical groups to guarantee the incorporation of their specifications into the final robot design.

Drive Team

Pit Crew

Mechanical Team

The mechanical team takes the design team's vision and brings it to life through hands-on activities such as welding and cutting. This group translates the design solutions derived from the game strategy, converting initial sketches into tangible, 3D models, which are further detailed into assembly plans and working drawings. They also engage in the fabrication of various components and provide support

during the assembly process, including troubleshooting. Additionally, they play a role in estimating the costs associated with the parts required to complete the build.

Business & Outreach Team

This team is tasked with the development and upkeep of the business plan. They oversee the coordination of our Impact Award essay, a document that encapsulates, describes, and emphasizes the significance of all the team's achievements. Additionally, they are responsible for composing the Woodie Flowers award, an accolade that acknowledges an inspiring mentor's contributions within the team.

Media

The media team dedicates considerable effort to maintain an active presence across various social media platforms, ensuring that our community members stay informed about forthcoming and ongoing team events. This serves as a valuable channel to express our appreciation to our generous sponsors, celebrate our achievements in competitions, and highlight our team's evolution. In parallel, the website group concentrates on promoting our team and FIRST by showcasing our activities and responsibilities through the upkeep of our website.

Awards

Strategy Team

The scouting and strategy group primarily manages the team's data. Throughout the team's competitions, this subgroup assumes the responsibility of meticulously documenting data for each match. This involves completing match data sheets on scouting tables, which is essential for the drive team's preparation for upcoming matches. The scouting subgroup takes the lead in formulating a winning strategy for the game and presents it to the entire team. This system ensures that everyone can actively participate both before competitions and during the build season.

Design

Uses CAD software to design the drivetrain and other mechanisms on the robot, and create drawings for the Fabrication team.

PMHS Team 319 Booster Club

The PMHS Team 319 Booster Club is a 501(c)3 organization of committed parents of team members, alumni, and community members. Their overarching objective is to cultivate support for the student program, generate and sustain funds for essential supplies and equipment, and contribute to a variety of fundraising initiatives and events. The organization conducts routine meetings and has elected officers, including a president, vice president, treasurer, and secretary.

STRATEGIC PLANNING PROCESS/SWOT ANALYSIS

| Strengths | Weaknesses |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Returning sponsors year after year • Well established fundraisers • History of success and pride in work • Booster Club to raise funds and handle money • Supportive mentors • Scholarship program to support graduates of 319 in college • Social media presence and website • Use of online technology • Gracious Professionalism | <ul style="list-style-type: none"> • Keeping student interest during pre-season • Acquiring new sponsors • Limited workspace |
| Opportunities | Threats |
| <ul style="list-style-type: none"> • Continue to grow the team • Outreach and mentoring FRC, FTC, & FLL (develops future BOB members and interest in STEM) • Engage existing sponsors in new ways • Connections to promote new sponsorships • Create and execute a summer enrichment program for incoming and returning students. | <ul style="list-style-type: none"> • Booster membership has not grown significantly <ul style="list-style-type: none"> ◦ <i>Solution:</i> Using individual skills of the booster parent's where needed such as team feeds, building skills, or monetary and/or material donations. • Needing additional mentors as team population increases <ul style="list-style-type: none"> ◦ <i>Solution:</i> Encourage sponsors and local businesses (ie: machine shop) to come into the shop to give feedback and advice during the build season. • Student membership declining <ul style="list-style-type: none"> ◦ <i>Solution:</i> Mentors will develop engineering and design courses and individual studies that are project based for the school curriculum |

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| | targeted at freshman students. |
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TEAM IMPACT/OUTREACH

We ensure that the community remains well-informed through a variety of communication channels, including our social media platforms, website, newspaper articles, and local town community pages on Facebook. Our team enjoys a favorable reputation within the community, thanks to engaging outreach events such as our off-season competition, the Battle Of the Bay, and our annual Craft and Vendor Fair.

Collaboration with our team sponsors plays a pivotal role in elevating our brand. We actively nurture relationships with our sponsors by featuring them on our social media channels with monthly acknowledgments, engaging in design concept collaborations, and hosting an annual sponsorship dinner.

The primary avenue through which we establish the Team 319 brand is through our merchandise. Our merchandise is in high demand, not only among local community members and teams but also among enthusiasts worldwide.

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| STEM Night at the NH Fishercats | Traditionally, the team has hosted the New Hampshire Fisher Cats annual STEM Night. At this event, we gave a demonstration of that year's robot in front of thousands of baseball fans of all ages. In 2017, the team entertained fans during a delay in the game due to pouring rain. In 2018, we were able to send the robot to collect trash to keep the stadium clean. |
| Alton Old Home Day Parade | When given the chance, team 319 shows off their current year's competition robot to the Alton Community in the annual Old Home Day Parade. The robot entertains & engages onlookers with the season's designated game pieces. |
| FLL, FTC, FRC Mentoring | Team 319 prides themselves in their abilities to mentor local FRC, FTC, and FLL teams. This contributes to teaching young children basic programming, building, and designing mentalities that FIRST promotes. It also helps these team's members expand their mindset, and grow to be prepared for their future in STEM while BOB members help them along the way. |
| Education & Enrichment Expo | The Education & Enrichment Expo was a remarkable event where students had the invaluable opportunity to engage with professionals from our community. The expo served as a platform for students to not only learn from these professionals but also share their own passions with friends, |

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | family, and community staff. The focus of the event encompassed all aspects of STEAM (Science, Technology, Engineering, Art, & Math), providing a comprehensive and enriching experience for everyone involved. |
| Thunder Over NH | Thunder Over NH is an annual airshow held in NH, featuring impressive aerial displays of military and civilian aircraft. The event showcases aerobatic performances, flyovers, and demonstrations, attracting aviation enthusiasts and the general public alike. It provides a thrilling experience with a focus on aviation excellence, STEM, and community engagement. |

FUTURE PLANS

We have an annual tradition of setting, revising, and personalizing goals in order to improve as a team. In order for continuous progress to happen, these standards must also be set when it comes to making goals. Over time, our team has grown in its technical abilities as well as its community outreach, but we always want to make an effort to grow when possible. Our current aspirations are as follows:

- Build a unique and well thought out robot using strengths from each member of the team.
- Compete at designated competitions both within the season and during post season
- Expand on our abilities to portray Gracious Professionalism and Coopertition
- Continue to recruit and train new members to grow our team.
- Mentor FIRST Lego League, FIRST Tech Challenge, and FIRST Robotic Competition Team.
- Expand our team's resourcefulness and willingness to be helpful to our community and the FIRST community.
- Become one of the leaders in the Lakes Region for all aspects of FIRST.
- To have a noticeable presence in our community by giving back to those who support us.
- To be good ambassadors for the values of FIRST.
- Actively search for new sponsors and those willing to support the 319 team
- Support teammates with their overall physical and mental health.
- Provide for the easy transition of senior students to mentors.
- Mentor potential team members for sub team leads to ensure adequate succession planning.
- Formalize recruitment and extend the induction framework for new/prospective team members.

ACTION/IMPLEMENTATION PLAN

| Strategy | Actions | Group Responsible | Planned Completion |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------|--------------------|
| Provide for the easy transition of senior students to mentors | Develop and implement a “Junior Mentor” program in the team structure | Executive | On going |
| Mentor potential team members for sub team leads to ensure adequate succession planning | Identify and mentor potential leaders within sub teams | Student Leadership Council, sub team Leads | On going |
| Formalize recruitment and extend induction framework for new/prospective team members | Formalize recruitment strategies | Whole team | On going |

TEAM BUDGET

2024 Fiscal Year Forecasted Income

| Income / Receipts: | Budget | Actuals | Variance |
|-------------------------------------------|---------------------|---------------------|-----------------------|
| Funds Raised (Gross) | | | |
| Battle of the Bay | \$ 12,325.00 | \$ 12,954.65 | \$ 629.65 |
| Craft Fair | \$ 4,575.00 | \$ 6,182.36 | \$ 1,607.36 |
| Merchandise Sales (Other than BOTB or CF) | \$ 1,020.00 | \$ 70.00 | \$ (950.00) |
| Sponsorships | | | |
| Alton Rotary | \$ 2,000.00 | | \$ (2,000.00) |
| American Legion - Alton | \$ 300.00 | | \$ (300.00) |
| FIRST | \$ 1,500.00 | | \$ (1,500.00) |
| Gilford Home Center | | \$ 500.00 | \$ 500.00 |
| Globe Manufacturing Inc. | \$ 100.00 | | \$ (100.00) |
| Meredith Village Savings Bank - Grant | | \$ 2,500.00 | \$ 2,500.00 |
| Podmore Manufacturing | \$ 5,000.00 | | \$ (5,000.00) |
| Profile Bank (BoTB Sponsor) | \$ 1,500.00 | \$ 1,500.00 | \$ - |
| SPS New England | \$ 10,000.00 | | \$ (10,000.00) |
| United Healthcare Services, Inc. | \$ 200.00 | | \$ (200.00) |
| Landry Donation | \$ 2,500.00 | | \$ (2,500.00) |
| Other Individual donations | | \$ 716.00 | \$ 716.00 |
| Interest Income (Scholarship Acct) | \$ 8.00 | \$ 2.93 | \$ (5.07) |
| Credit Cards - Point Redemption | \$ 1,000.00 | | \$ (1,000.00) |
| Total Income Received | \$ 42,028.00 | \$ 24,425.94 | \$ (17,602.06) |

| Expenses: | Budget | Actuals | Variance |
|------------------------------------------------------|---------------------|---------------------|---------------------|
| Robot Supplies | \$ 6,000.00 | \$ 3,492.13 | \$ 2,507.87 |
| Competition Costs | | | |
| Gas | \$ 1,200.00 | \$ 69.66 | \$ 1,130.34 |
| Lodging | \$ 18,750.00 | | \$ 18,750.00 |
| Meal Assistance Program | \$ 500.00 | | \$ 500.00 |
| Other (Team Food / Building Purchases during Travel) | \$ 200.00 | | \$ 200.00 |
| Registrations | \$ 1,500.00 | \$ 781.00 | \$ 719.00 |
| Robot Transport to Worlds | \$ 500.00 | | \$ 500.00 |
| Transportation - Airfare | \$ 5,000.00 | | \$ 5,000.00 |
| Transportation - Rental Car, Tolls, Parking | \$ 1,000.00 | | \$ 1,000.00 |
| Bank / Venmo / Square Fees | \$ 200.00 | \$ 128.21 | \$ 71.79 |
| Computer Supplies | \$ 1,000.00 | | \$ 1,000.00 |
| Corporate Filing Fees | \$ 75.00 | | \$ 75.00 |
| Equipment Purchases (Non-Robot) | \$ 100.00 | \$ 59.98 | \$ 40.02 |
| Gen Admin | \$ 100.00 | \$ 9.99 | \$ 90.01 |
| Insurance - Booster Org. Director and Officer | \$ 925.00 | \$ 943.00 | \$ (18.00) |
| Lease - Practice Space | | \$ 1,500.00 | \$ (1,500.00) |
| Merchandise Costs (Outside of BOTB & CF) | \$ 1,500.00 | \$ 3,752.40 | \$ (2,252.40) |
| Office expense (Membership Fees, postage, etc.) | \$ 200.00 | \$ 26.40 | \$ 173.60 |
| Promotion Expenses (Website Fee, etc.) | \$ 100.00 | \$ 60.00 | \$ 40.00 |
| Scholarships Paid | \$ 5,000.00 | \$ 500.00 | \$ 4,500.00 |
| Team Building Expenses (Food, Hawaiian Shirts, etc.) | \$ 400.00 | \$ 84.90 | \$ 315.10 |
| Fundraising Expenses: | | | |
| Battle of the Bay | \$ 6,500.00 | \$ 4,466.04 | \$ 2,033.96 |
| Craft Fair | \$ 500.00 | \$ 919.08 | \$ (419.08) |
| Total Expenses Paid (YTD) | \$ 51,250.00 | \$ 16,792.79 | \$ 34,457.21 |

SPONSOR CATEGORIES

Community Sponsors

| Sponsorship Levels | Level Benefits (Each level includes the benefits of the previous level) |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| “ Orange ” Level: \$50 - \$300 | <ul style="list-style-type: none"> • Battle Of the Bay Invitation • Orange Level Sticker |
| “319 Challenge” Level: \$319 | <ul style="list-style-type: none"> • 319 Challenge Sticker Pack (<i>Only available at this level</i>) • 10% BOB merchandise discount • Sponsorship dinner Invitation |
| “ Blue ” Level: \$350 - \$500 | <ul style="list-style-type: none"> • Blue Level Sticker • Emailed team updates |

Corporate Sponsors

| Sponsorship Levels | Level Benefits (Each level includes the benefits of the previous level) |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Silver Level \$1000 - \$2,999 | <ul style="list-style-type: none"> • Business logo on robot, competition shirt, and website (with website link) |
| Gold Level: \$3,000 - \$4,999 | <ul style="list-style-type: none"> • Special mention during team events and presentations |
| Diamond Level: \$5,000 - \$9,999 | <ul style="list-style-type: none"> • Business logo on banner |
| Platinum Level: \$10,000 | <ul style="list-style-type: none"> • Prominently placed logo/title in color on robot • Recognition at competitive events |
| Premiere Level: \$12,500 | <ul style="list-style-type: none"> • Largest business logo in color on robot • Inclusion in all press releases • Monthly promotion through social media channels |

FUNDRAISING OPPORTUNITIES

Current Team Fundraisers

Battle Of the Bay

Battle of the Bay is an off-season competition hosted at Prospect Mountain High School, and it has reached its 9th year of operation, generously sponsored by Profile Bank. This competition holds a unique position as the concluding event in Northern New England before the commencement of the next season. In the most recent fall edition, the event attracted over 30 teams hailing from Maine, New Hampshire, Vermont, and Massachusetts, in addition to an audience of over 1,000 spectators and team members.

This event serves a dual purpose, functioning as both a fundraiser and a community event. It provides an opportunity for the team to not only showcase their robot but also to promote the core ideals of FIRST Robotics.

2023 Revenue: \$9,400.00

Annual Craft & Vendor Fair

The annual Craft and Vendor Fair, traditionally hosted at Prospect Mountain High School, has successfully taken place for the past six years (with one year's interruption due to the pandemic). This fair draws participation from more than 60 crafters and vendors, coming from the states of Maine, New Hampshire, and Massachusetts. We generate funds for this event through the sale of booth spaces, raffles featuring donated items, and the provision of concessions.

2023 Revenue: \$5324.00

Merchandise Sales

We provide a range of clothing and miscellaneous products bearing our team's brand logo for sale. Our merchandise is available for purchase throughout the year, with our biggest sales occurring during our flagship event, Battle of the Bay.

Future Team Fundraisers

| Name | Description | How do we plan to advertise? | Materials Needed | Estimated Income (Income-Expenses) |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------|
| Mattress Fundraiser (in conjunction with Prospect Mountain FBLA club) | Custom Fundraising Solutions takes a creative approach to raising money, through mattress sales and more! | Social Media, Newspapers, | Materials are provided by CFS | \$1,000-\$3,000 estimated income |
| "319 Challenge" | | Social Media In Person visits/presentations | 319 Challenge brochures | Unlimited and on-going |

WHY IS OUR TEAM UNIQUE?

Team 319 wholeheartedly embraces an open-team philosophy, rejecting the notion of keeping our robot designs, software, or procedures confidential from other teams. Instead, we proactively share our team's resources within the FIRST community, recognizing that the primary goal of FIRST is to inspire. Each season, our CAD designs are made available online in real-time, and we promptly respond to inquiries from fellow teams. Our software is publicly accessible, and we enthusiastically assist any team seeking to incorporate elements of it into their own projects.

In the spirit of Coopertition®, we view collaboration with other FIRST teams as a vital learning experience, exposing students to new ideas from diverse perspectives. This approach fosters a culture of openness and acceptance toward ideas and beliefs different from our own, benefiting both the team and individual members.

Our unwavering commitment to active resource sharing has resulted in successful collaborations between Team 319 and the broader FRC community. In 2018, for instance, we joined forces with FRC 3847 from Houston, Texas, who generously shared their collector concept. This collaboration culminated in the development of one of the most successful gripper designs of that year. Similarly, in 2019, other teams admired our elevator bearing block design and successfully implemented it into their own robots, creating valuable learning experiences for everyone involved.

By openly sharing our code, we empower numerous teams to implement features previously out of reach, thereby enhancing their success on the field. Since adopting an open-team approach in 2017, Team 319 has not only elevated its own performance but has also contributed to the success of other teams. Importantly, this open concept has not compromised our competitiveness; rather, we firmly believe that our open approach is a key factor in our success.

Advocating for open source design in every facet of our FRC team operations since 2016, Team 319 has been at the forefront of promoting transparency. Our use of Onshape as the primary design software since that year has grown and is now adopted by many teams in the FRC community, serving as one of the tools we use to share our ideas. Our commitment to being open source with our design, software, team management, and build process has significantly impacted Team 319, prompting us to be one of the founding teams of the Open Alliance in 2020, solidifying our dedication to open practices.

As long as our team participates in FIRST, we will continue to champion open source design. Actively sharing ideas and resources with other teams not only benefits us directly but also allows us to contribute to the knowledge pool. For instance, our collaboration with Team 8046: The Lakerbots involves sharing a practice field, reducing workloads while providing valuable practice opportunities. This

collaborative effort also enables both teams to practice working with or against other robots, creating a more realistic simulation of competition scenarios.

ACHIEVEMENTS

Our team prides itself not only on creating new goals, but on the achievements of ones from years past.

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| 2024 | <ul style="list-style-type: none"> ➤ Bridgewater State : Ranked 21st with a record of 7-9-0 ➤ Western NE : Ranked 20th with a record of 11-8-0 and were event Finalist ➤ NE district Championship: Ranked 31 with a record of 6-6-0 ➤ Wv Rox : 26 hour 14 minute endurance event Finalist ➤ Competed in a total of 7 off season including our new event, Girls Behind the Glass |
| 2023 | <ul style="list-style-type: none"> ➤ Rhode Island District: Ranked 6th with a record of 13-6-0 and won the District Event Finalist ➤ UNH District: Ranked 5th with a record of 10-6-0 and won the Quality Award ➤ New England District Championship: Ranked 9th with a record of 11-5-1 ➤ World Championship: Ranked 4th with a record of 10-4-0 ➤ Competed in 7 off season events including our event, Battle Of the Bay |
| 2022 | <ul style="list-style-type: none"> ➤ North Shore District: Ranked 14th with a record of 8-8-0 and won the Team Spirit Award ➤ Pease ANG District: Ranked 19th with a record of 9-8-0 and won the Team Spirit Award ➤ New England District Championship: Ranked 5th with a record of 13-4-0 and won the Team Spirit Award |
| 2021 | <ul style="list-style-type: none"> ➤ Game Design Challenge participant (The Game Design Challenge was an opportunity for teams to design a FIRST Robotics Competition game and compete against other teams for a chance to pitch their game to the FIRST Robotics Competition Game Design Team.) <p><i>(virtual season due to pandemic)</i></p> |
| 2020 | <ul style="list-style-type: none"> ➤ Ranked 14th and semi-finalists at Granite State District. <p><i>(shortened season due to pandemic)</i></p> |
| 2019 | <ul style="list-style-type: none"> ➤ Ranked 7th in New England district earning 288 points ➤ Awarded gracious professionalism award at River Rage 2019 ➤ Our record for 2019 was 92-35-3 ➤ Ranked 6th at UNH NE district event ➤ Won Innovation in Control Award sponsored by Rockwell Automation at New England District Championship 2019 ➤ Won Excellence in Engineering Award sponsored by Delphi at Daly Division World Championship in Detroit |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2018 | <ul style="list-style-type: none"> ➤ Finalist at Central New York Regional ➤ Engineering Inspiration Award and won at Reading district event ➤ Industrial Design and won at UNH district event - #1 alliance captain ➤ Quality Award and won at New England Championship ➤ Semi-finalist at World Championship in Detroit ➤ Won at Battlecry off season event ➤ Won at Mayhem in Merrimack off season event ➤ Quarter finalists at IRI off season event, #2 alliance captain ➤ Won at The Governor's Cup off season, seniors got college scholarships ➤ Won at River Rage off season |
| 2017 | <ul style="list-style-type: none"> ➤ Won at Beantown Blitz off season event ➤ Finalist at Summer Heat - #3 Seed ➤ Won at RiverRage off season event - #2 alliance captain ➤ Judges' Award at Granite State district ➤ Won at Battlecry off season event - #3 alliance captain |
| 2016 | <ul style="list-style-type: none"> ➤ Won at Reading District Event - #1 alliance captain ➤ Won UNH District Event - #1 alliance captain ➤ Qualified for New England District Championships - #7 alliance captain ➤ Competed at World Championships - semi-finalist in Carson Division |

TEAM CONTACT INFORMATION

| | |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Website | http://www.frc319.com |
| Team Email | BigBadBob319@gmail.com |
| Facebook | https://www.facebook.com/319BigBadBob |
| Twitter/X | https://twitter.com/FRC319 |
| YouTube | https://www.youtube.com/user/BigBadBob319 |
| The Blue Alliance | https://www.thebluealliance.com/team/319 |

Main Contacts

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Lead Mentor : Holly Joubert
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Sponsorship Information

Checks should be made payable to: PMHS Team 319 Booster Club
Donations may be tax deductible; a receipt with our tax id # will be sent upon receipt from our treasurer.

Mailing Address

PMHS Team 319 Booster Club
Attn: Brian Hikel
242 Suncook Valley Road
Alton, NH 03809

Thank you for your support!!