

Introduction

As the AdamBots, we lead, collaborate, and dream of a better future. We are learners, teachers, and future innovators. We inspire leaders and aspire to be leaders. On our team, FRC isn't just a robotics competition; it's a cultural movement. We aim to excite and inspire students to become the ones who drive the future of STEM. We maintain an extremely high GPA and excel in honors and AP classes. We are the AdamBots: a group of inspiring students dedicated to having a positive impact on the global *FIRST* community.

Mentoring

The AdamBots value the growth of *FIRST* and spreading the AdamBots message. By mentoring teams at all levels, we invite a greater audience into the field of STEM. We start teams by providing them with aid, and helping run events; we instill in our members a respect for not only *FIRST* but STEM as a whole. Since the beginning of the program, we have aimed to inspire kids to build their interest in STEM; now, many past students have joined the team to share their passion with the next generation. Each AdamBot contributes at least 90 minutes a week to mentor other teams, totaling up to over 100 hours per week distributed over four months.

For the younger levels of *FIRST*, we offer mentorship and assistance, which comes in the form of building space, finance, and guidance through the season. By connecting with younger *FIRST* students, we provide them the opportunity to gain knowledge through hands-on experiences in STEM. This year we aided 32 FLC, FLE, and FTC teams (more teams than we assisted last year).

The AdamBots are blessed to have mentors with decades of experience and specialized degrees in their respective subteam. These mentors are invaluable to the team, as they teach students about various aspects of the team in engineering as well as business. When new mentors join the AdamBots, the veteran mentors are happy to offer them guidance so they can inspire and impact students. Additionally, other FRC teams regularly ask the AdamBots mentors questions regarding engineering design and programming during collaboration meetings. Our mentors are happy to share their decades of expertise with other teams.

In addition to mentoring, every student spent at least three hours volunteering at events for all levels of *FIRST* to provide assistance. This year the AdamBots held a mock event for FLC to help teams prepare for the actual tournaments. We have also supported events for younger levels of *FIRST* at two other highschools.

Our FRC Programs

The AdamBots continue to give back to those in the FRC community. We strive to pass on and gain knowledge from our competitors and allies. We assist them through the many resources offered on our website and hold weekly meetings with teams. Also, we feel we are blessed with many resources and take pride in sharing them with other teams.

The AdamBots also strive to spread the *FIRST* message within the FRC community. We believe in ensuring that everyone has access to STEM education. To achieve this, the AdamBots started team 5436, the CyberCats, to establish an FRC team in every high school in our district. We provided the CyberCats with build space, mentors, finances, business plans, and made other resources available to them. Furthermore, we have helped FRC teams outside of our local community, such as team 6121, the Robovikes from Grayling, where we provided mentorship, business plan, tools, and materials to the RoboVikes to provide STEM access to all students. We also support the Village Bulldogs (3096), Team SHIELD (5213), and RoboPheonix (2224) by collaborating with design and assisting in programming.

Additionally, the AdamBots have worked to spread the *FIRST* message internationally. We assist two teams in Mexico, specifically SteamEx and the Lambots. We helped both teams with the design review and business plan. Also, due to our connections with the Lambots, we presented our business plan at the Mexico Robotics Festival and helped spread our keys to success and the importance of STEM to over 10 Mexican *FIRST* teams.

To keep our team organized, the AdamBots created a Sustainability and Business Plan which we update annually. The Sustainability and Business Plan includes extensive information on managing sponsors, our core values, and budgeting. We share the plan with other teams on our website and have presented it at Kettering University.

To help other teams, the AdamBots host weekly zoom meetings with many *FIRST* teams. In these zoom meetings, we assist teams with engineering design, scouting, and strategy. As a team, we share our knowledge and positively contribute to the *FIRST* community.

Outreach (Local and Global)

The AdamBots' Ambassador program ensures that we can broaden our outreach in full measure. In the program, an AdamBot who is traveling internationally uses their opportunity to spread the message of *FIRST*. They present to various schools about robotics and STEM. At the schools, the AdamBots bring FLC kits and demonstrate robots, emphasizing the large extent of the impact of *FIRST*. They explain how it inspires and motivates students to pursue STEM while creating memorable experiences. By presenting about *FIRST*, the AdamBots spread important values and actively influence the world, permanently impacting the lives of children worldwide.

To help spread the influence of the AdamBots, we send out monthly newsletters to our sponsors and supporters, updating them on the team's progress throughout the season. Along with participating and helping in numerous events, this keeps our sponsors engaged and ensures the sustainability and success of our team. In the newsletter, we include the outreach events in which our team has participated.

The AdamBots demo their robots at many science fairs, farmers markets, and sponsor demonstrations to influence the adoption of STEM in our local and global communities. By doing this, we advocate not only for STEM as a whole but also aid in developing the interest of the younger *FIRST* teams.

During the offseason, the AdamBots partnered with the Student Association for STEM Advocacy (SASA) to gain more resources to spread STEM education. Through SASA, the AdamBots were able to advocate for more funds for STEM education to members of both National and State-level Congresses, resulting in significantly greater funding for STEM education across the United States. After attending the National Advocacy Conference (NAC), we were invited to serve on the Michigan Advocacy Conference (MAC) Advisory Council through SASA. We helped guide students from FRC teams across Michigan to prepare them for their meetings with their legislators at MAC. Through what we learned at NAC and MAC, the AdamBots continued advocacy efforts at a local level. The AdamBots presented to District Administrators such as Principals, School Board Members, and the District Superintendent to showcase the importance of STEM and creative learning in schools. Also, as a part of Rochester United, we started a local STEM advocacy group and meet with our local town mayor Bryan Barnett and the Diversity, Equity, and Inclusion committee on Rochester Community Schools to spread the *FIRST* message. As a result, our local community has opened up *FIRST* robotics programs at all schools, inspiring other districts.

The AdamBots started and annually run the annual robotics Hunger Walk, an event to raise money for the Rochester Area Neighborhood House (RANH). We invite the FEDS, the CyberCats, and the middle school FTC teams to take a short walk through Rochester's municipal park. Students donate \$5 along with canned food items to give to the RANH. In addition to helping the community, students have an excellent opportunity to bond with other robotics teams. In 2022, the Hunger Walk raised over 400 pounds of food and \$1050.

In addition to supporting many local charities, like the Assistance League, the AdamBots has supported many national organizations, inspiring many people. For example, the Fight Against Cancer is an issue that has affected many members of the AdamBots family. The AdamBots annually participate in Relay for Life to raise funds for the American Cancer Society. The AdamBots have partaken in this event for over 20 years, raising over \$115,000 for cancer research. Additionally, the AdamBots regularly donate a portion of our parking lot fundraiser

from the Art and Apples festival to charities; this year we donated to Nova Ukraine, a non-profit organization that raises awareness and offers humanitarian aid to the people of Ukraine impacted by the Russo-Ukrainian war. Alongside this, we help load trucks for the Assistance League, a non-profit organization that works to provide for the local community based on volunteer work.

Conclusion

As AdamBots, we learn to collaborate, lead, and innovate. These skills are fostered by strengthening *FIRST* in our community and spreading its message to others. We impact students spanning through their educational journeys to their professional careers. Early on, children find inspiration through our demos at their science fairs and become excited about STEM through their FLE or FLC teams. As they make their way through their robotics journey, they enhance and strengthen their skills and knowledge through FTC and climb up to FRC. Our program has had an impact on all of our alums. Many have excelled in STEM, including jobs in engineering, medicine, and other sciences. Furthermore, the AdamBots spread our positive charge to parents, mentors, school administration, and more. Through *FIRST*, we strive to create a better future. We are the AdamBots: an inspiring learning environment dedicated to building a global *FIRST* community.