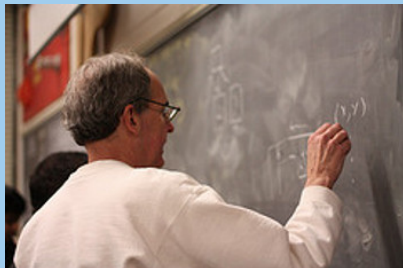


How You Can Help

To continue to motivate area youth to pursue STEM-centric careers, we require help and support from across the community. If you are interested in our mission and would like to help us further please consider one of the following methods of contribution:

- **Sponsorship-** Monetary contributions are very important to us, since we receive little school funding. Using your donations, we can fund demos and exhibits in community programs, pay for quality tools and materials our students can use, and support our variety of current and future outreach/educational programs.
- **Mentoring-** More valuable than money is time. If you are a company, providing employees to teach STEM skills, or skills of any kind, would be incredibly helpful, as they can teach skills better than any textbook or tutorial. If you are a potential volunteer reading this, your presence would make a huge difference
- **In Kind Donations-** Besides money, we always are in need of services like printing, videography, etc and materials like steel.

All contributions will have their monetary value determined. Please look at the attached response form for benefits of helping us out.



Contact Us

If you would like more information or would simply like to discuss the team please contact the following people and numbers:

- ERHS Sponsor: Dr. Davida Taylor
 - o Phone: (301)-513-5400
 - o Email: davida.taylor@pgcps.org
- Team Manager: Patrick Healey
 - o Phone: (301)-219-3653 (C)
 - o Email: mentors@erhsroboticsclub.org
- Club President: Vishnu Rachakonda
 - o Phone : (703)-863-8571 (C)
 - o Email: president@erhsroboticsclub.org

You can also visit our team website:
<http://www.erhsroboticsclub.org>

Thank you for your time!



Eleanor Roosevelt High School

Robotics Club



Team Background

The Eleanor Roosevelt High School Robotics Club is a science and technology focused extracurricular enrichment program dedicated to increase student and community interest in the four fields of science, technology, engineering, and mathematics (STEM) in the Washington Metropolitan Area, especially Prince George's County. Founded in 1998, the club gets students from grades nine through twelve involved in a variety of intellectually stimulating competitions and community service activities, all with the goal of creating the next generation of leaders and innovators in STEM fields. Club members are involved both in building high quality robots for competitions (like the FIRST Robotics Competition) and in developing their personal skill sets. At the end of four years as a member of the Robotics Club, students are expected to be motivated, articulate, and STEM savvy leaders ready to go to college and beyond.



Team Activities

The first part of our approach to enrich students learning is participation in a number of team competitions and educational activities. These include:

- The FIRST Robotics Challenge (FRC): FRC is a team-based engineering competition for high school students. Teams of students build robots, often as large as 120 pounds, to compete against other in various robot "sports". FRC is the nation's premier high school robotics program and is the flagship event of our team.
- ION Mini Urban Challenge: The ION Mini Urban Challenge is also a national high school competition. ION challenges students to create autonomous robots that can navigate through a given course. Our team is entering its third year in this competition.
- Intra Team Education: Apart from competitions, our team also has a number of our own educational programs, including presentations and focused lessons by mentors and recreational robot construction. We conduct these activities to get our members comfortable with problem solving and logical thinking in a STEM context.

Community Service

The second part of our approach is the performance of STEM oriented community service by team members. When our students go out and teach others about STEM fields, they not only get others interested in such education, they get themselves better versed in and more about excited about STEM fields. Currently, our team performs two main types of community service activities which are:

- Mentoring- Our team mentors more than thirty elementary school students at Magnolia Elementary School. ERHS Robotics students go to Magnolia and teach the third through fifth graders about basic robotics. We have also introduced and helped grow a FIRST Lego League Team at the school, a competition the kids have found very fun and rewarding.
- Displays and demos- Our team prepares demonstrations and exhibits at festivals and fairs across the region. We have been present and spreading our message at major events like the US Science and Engineering Festival and the Greenbelt Labor Day Festival.

Future Goals

In the future, our team would like to expand several of our current initiatives and put into place many new educational programs, especially ones that work to involve more middle school students in STEM programs. We would also like to get involved with many more STEM competitions, both as volunteers and participants, to get our students' horizons to be as broad as possible. Most importantly, we would like to create new community partnerships with local businesses, non-profits, and government institutions in order to promote our goal of furthering STEM education in the society.

