FRC 2200

BURLINGTON COMMUNITY ROBOTICS

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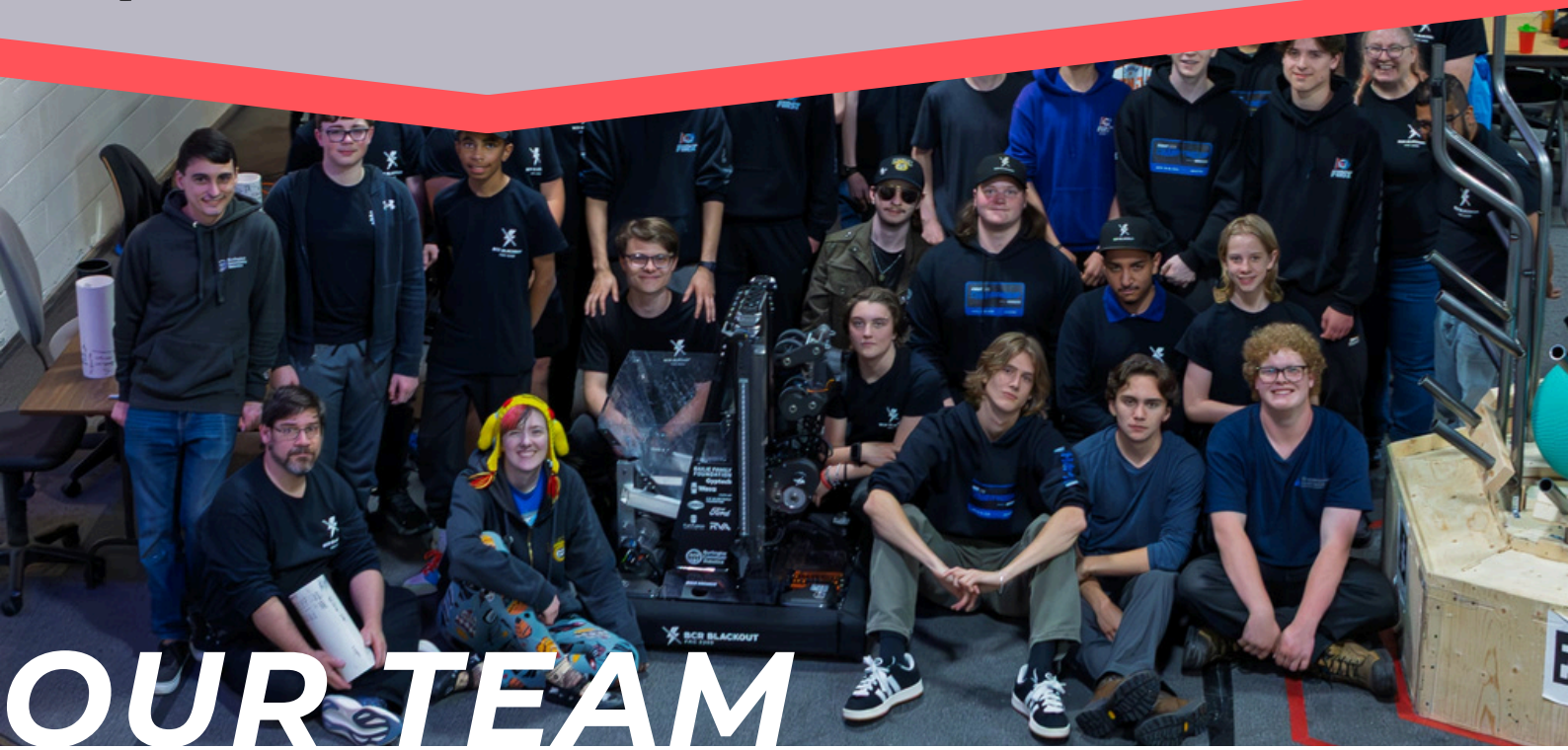

OUR TEAM

Who Are We?

Team 2200 BCR Blackout, is a high school level *FIRST* Robotics Team run by Burlington Community Robotics.

Our Mission:

To provide high school students with a place to learn and grow in the competitive environment of the FIRST Robotics Competition. We aim to inspire, educate, and empower students with invaluable career oriented experiences.

We Provide Students Opportunities To:

- Build & Compete with a robot they design, manufacture and program
- Develop real world skill such as:
  - Engineering Design
  - Programming
  - Hands on Experience in the Trades
  - Project Management/Teamwork
- Learn how to use manual and CNC industry standard tools & machines
- Work alongside industry professionals and post secondary mentors

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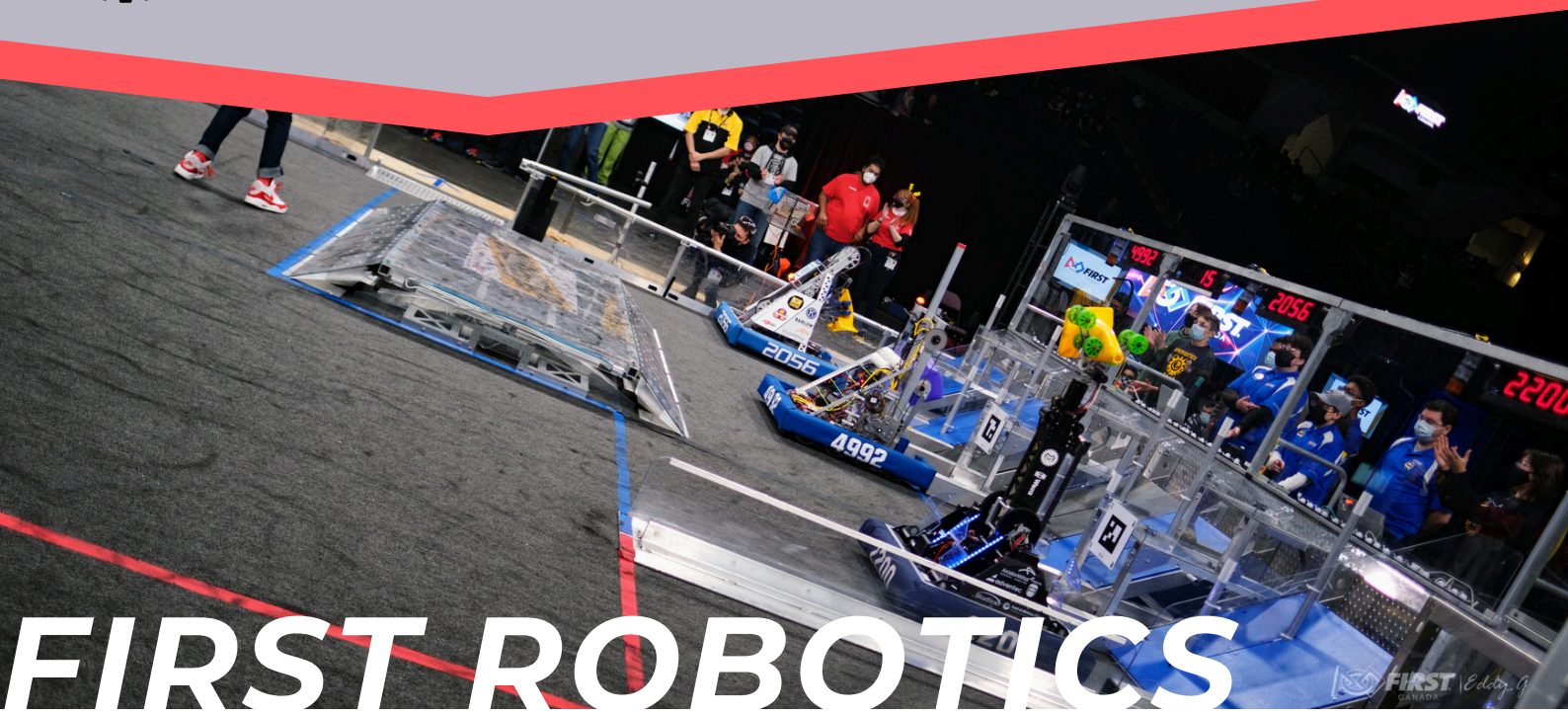

FIRST ROBOTICS

FIRST Robotics Competition: The "Varsity of STEM"

The FIRST Robotics Competition is a combination of the exciting, fast-paced nature of sports with the precision of science and technology. Over the span of 6 weeks, students are tasked with designing, manufacturing, programming and iterating a large scale robot to perform prescribed tasks. **It is as close to "*Real World*" engineering as high school learning can get.** Students get the opportunity to compete locally and internationally on a world stage.

Facts about FIRST & It's Members:

- 81% of *FIRST* Alumni Declare a STEM major
- 50% of Female *FIRST* alumni declare a Major in Computer Science or Engineering (vs. 14% in their peer comparison groups)
- *FIRST* Alumni are 4 Times more likely to pursue a career in STEM

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SPONSORHIP

An Investment for the Future

Your investment goes further than just building robots. Your investment gives students the opportunity to gain unrivaled experiences and understanding of all facets of STEM. Our mentors and industry professionals contribute hundreds of volunteer hours every year empowering students. **Your business can be part of this revolution in tech education.** Help us achieve *FIRST's* vision of a world where STEM is valued.

Benefits

In addition to participating in the education of future engineers, computer scientists, trades workers, and many more; sponsors of BCR get extensive public acknowledgment. Depending on your donation amount you may receive recognition on our:

- Website
- Team Apparel
- Banners
- Robot
- And More!

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CONTACT US

Where to Find Us

If you would like to become a valuable member of BCR, or find out more information, please Contact Us

contact@burlingtoncommunityrobotics.ca

www.SupportBCR.ca

Put a Face to a Name

Director
Adam Bochek

Director
Ryan Coleman

Director
Jason Patel

Tax Receipts

Burlington Community Robotics is a registered Charitable organization and can issue Tax Receipts for any donations. Please see our website for donation directions or donate to us through Canada Helps.

SEASON ROAD MAP

Kickoff!

The long awaited Game Reveal. It is here where we learn the tasks and challenges our robot will have to solve!

Prototyping

The stage of rapid iteration. Prototyping is essential in order to find the best mechanisms to complete certain tasks. Every year new challenges require unique solutions and problem solving!

Design

Every year we design our entire robot using AutoDesk Inventor. Students learn how to use 3D design software while designing, assembling and creating 2D drawings for all components of our robot. Down to every last fastener!

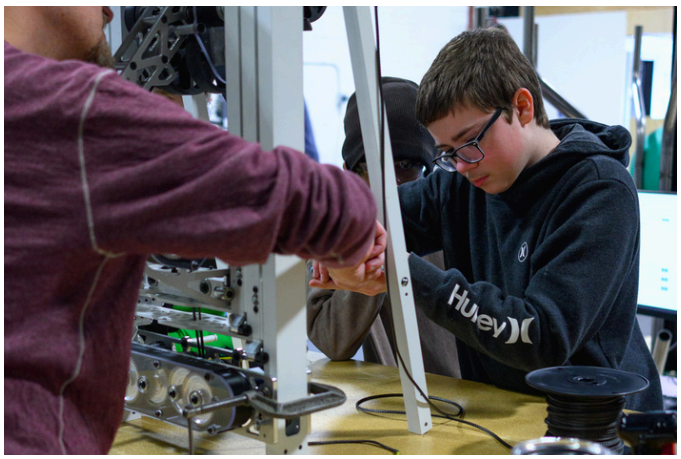
SEASON ROAD MAP

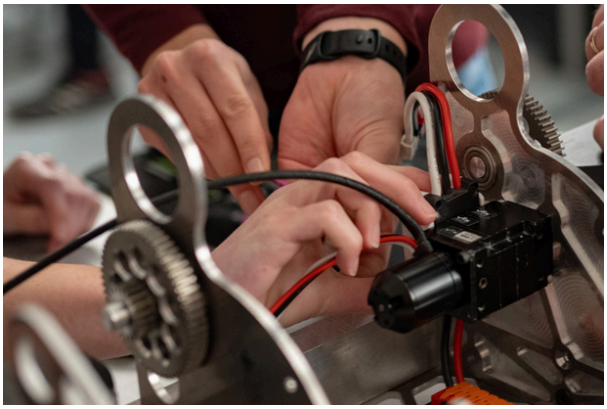
Fabrication

Unlike many other teams, we fabricate almost every part of our robot in house! Students learn how to use manual mills and lathes as well as CNC routers. Students learn the full process of manufacturing to quality control. They learn to read 2D detail drawings and hold tight tolerances.

Assembly

The point where all of our work starts to come together. Students get too see their design come to life through the assembly of the parts they have labored to make!





Testing & Iteration

Once the robot is fully assembled it is handed over to the programming team. They test both their code, and also the mechanical functionality of the robot. Students get to learn how to overcome challenges and create new solutions!

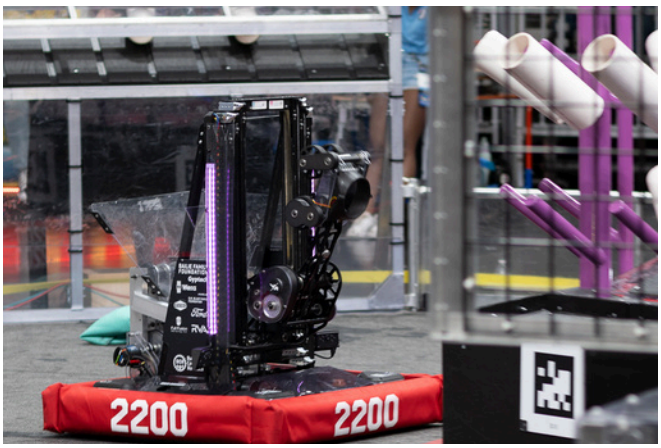
SEASON ROAD MAP

Competition: District Events!

After a long build season we then travel across Ontario to compete. This is where we find out if all of hard work payed off. Events are the first opportunity to test your robot at the limit and also see what all of the other teams came up with. Depending on our performance we can qualify for Provincial Championships.

Provincial Championships

The best of Canada comes together to find a champion. Split into two divisions, teams compete to win their division and get the opportunity to play for the championship. In 2023 we managed to bring home the trophy as Provincial Champions!



World Championships

The pinnacle of competition. Teams travel to Texas from around the world for a 5 day event made up of the top 600 teams. With **Your Help** we hope to raise the amount of money we need to travel and represent Canada & BCR on the world stage.

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HOW TO DONATE

Online

To donate online, visit: www.SupportBCR.ca
Tax Receipts will be emailed automatically alongside donation confirmation.
contact@burlingtoncommunityrobotics.ca
www.SupportBCR.ca

Cheque

To donate via cheque, make it out to: "*Burlington Community Robotics*"
Please coordinate with one of our Directors via:
contact@burlingtoncommunityrobotics.ca in order to arrange drop off.

In-Kind Donations

For in-kind donation, please reach out to:
contact@burlingtoncommunityrobotics.ca to speak with one of our Directors regarding your donation.

DONATE NOW!

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