Team 3322 Eagle Evolution



About Us

Who we are: Team 3322, Eagle Evolution, is a FIRST Robotics Competition (FRC) Team from Skyline High School in Ann Arbor, Michigan.

What we do: Annually, our 50+ students design and construct a robot from scratch to compete in the year's novel game, and have qualified to compete at the World Championships for four of the past five years. Beyond building a robot, our students build a community. Embodying the FIRST principle of Gracious Professionalism, Eagle Evolution is structured so students teach students, learning critical life skills and having fun. Together, we continually evolve – both the robot and ourselves.



History + Structure

Our team began with six students in 2010. Now, we consist of over 50 team members. We've qualified to compete at nine state championships and seven world championships!
As a student led group, we have three team captains with the team divided into 6 sub-teams; each has a senior lead and a junior lead. Our sub-teams are:

Design
Business
Strategy
Electrical
Programming
Fabrication

From Our Students

As a student-led team, we look to upperclassmen to mentor newer members, passing along knowledge and ensuring that everyone is learning something new. Hear it directly from some current members about how 3322 has impacted their lives:



Corrine S.



"I have been a member of the team for three years now and I can not even come close to expressing how much I've learned and grown from being on it. Before high school I didn't ever see robotics as something I'd do, but now it has become quite literally my whole life. Robotics has also been able to connect me with so many people. I have been able to learn so much from other students who have really taken me under their wing and showed me the ropes. I have even been able to come to practice and basically have a whole tutoring on my math test the next day. I have also gained so much interpersonal knowledge, from being able to teach people how to use different shop tools, to delegating tasks and even managing disagreement. Being on this team has been so rewarding both in what I've been able to give and what I have received. "

Dani B.

" I have been part of 3322 ever since freshman year. I joined because of my interest in using CAD and then turning it into reality. Before joining the team, I knew I wanted to pursue aerospace engineering in college, but my skills using software and hardware were not perfect. I gained experience using Onshape and many new tools that are present in the shop. For example, I learned how to use a side and end mill, which is really useful for polishing parts and making them accurate. I saw how all the sub-teams cooperate to make a fully functional robot, and it taught me how I can realize my own projects. "



Preseason

Preseason lasts from registration in early September to kickoff – when the FRC game is released – in January. Most of this time is spent running modules, where we teach the newer members the technical skills they'll need during the main season. We also participate in off-season competitions like Washtenaw Area Pickup Robotics (WAPUR) and the Bloomfield Girls Competition.



Teaching design during modules



Collin improving a brackets

Build Season

Build season, or main season, runs from kickoff weekend until elimination from competition. In other words, this season starts in early January and runs until around April, depending on how far we get. This part of the year is often the most demanding on our students, with meetings almost every day of the week and plenty of time spent during and after robotics iterating on our ideas (prototyping, having multiple design plans in place, and more!).

Spotlight: AADL Warehouse

One way we connect to our community is participating in the Ann Arbor Library Field. Our local library provides a warehouse to 10+ teams around the area, with each team contributing handbuilt plywood replicas or purchased versions of the field elements, game elements, and/or people to break down the field. The end result? A full size field for teams to practice on. AALF is a great example of teams coming together and all benefiting through that partnership. On-field testing has been invaluable in terms of iterating on software and finding weak spots to fix before we head to qualifiers.



The AADL warehouse field!

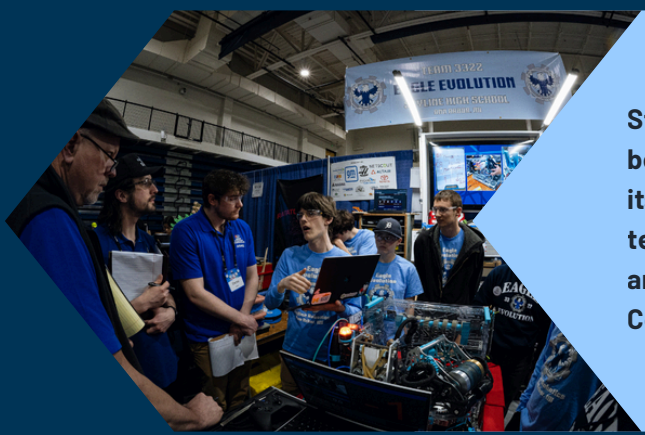
FIRST Competitions

Woodhaven

This was our first competition and the robot was in a half baked state. Indexing was slow and had jamming issues, but the early iteration of our bot was still able to perform consistently with zero electrical issues. We ended up first pick of 5th alliance

– Jack (design)





Saline

Static propagation within the robot caused a boot cycle [the robotic continuously restarted itself]. This breakdown required a lot of teamwork to solve, but we were able to fix this and continue to the semifinals of the Saline Competition

– Evan (programming)

State Championship

In preparation for states, we made some important decisions on the bot mechanically:

Eliminated the climber due to the low return on points for the weight + space penalty

Designed a new hopper that was much bigger and robust to increase reliability and add a competitive edge

Although we had a very difficult schedule, our robot *Anklebiter* fought hard with minimal technical difficulties throughout matches

– Joowon (captain)



Sponsorships

Building a robot is expensive! The budget for each season can extend upwards of $90 thousand dollars. We need to purchase robot parts, buy team t-shirts, purchase tools, and pay registration fees. How do a bunch of high schools students get all this funding? From companies like you!

In addition to having a huge impact on our team and each member who participates, sponsors also receive a range of benefits, such as being showcased on our social media, on our robot, and on every team shirt.

See the following steps to become a sponsor for the 2026-2027 season:

- Choose a sponsorship tier (see table below)
- Email us at **info@skylinerobotics.org**
- Send payment (Electronically or via check)
  - Electronically via PayPal Checkout - Select Sponsorship in the "Use This Donation for" Box
  - Make a check payable to **Skyline PTSO - Skyline Robotics** and mail it to **Skyline Robotics c/o Laura Schaffer, 2552 N Maple Rd, Ann Arbor, MI, 48103**
- Enjoy the benefits of being a sponsor!

Sponsorship tier	Nesting (Up to $499)	Gliding ($500-$999)	Flying ($1000-$1999)	Soaring ($2000+)
Social Media Post	✓	✓	✓	✓
Logo on Website	✓	✓	✓	✓
Featured on a shared pit slide	✓	✓		
Featured on an individual pit slide			✓	✓
Logo on t-shirts		✓	✓	✓
Name on Blue Alliance website			✓	✓
Logo on Robot				✓