

# EMS PTSA ROBOTICS CLUB 2023-2024 ACCOMPLISHMENTS

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- Registration Numbers: 110 students; 28 teams
- Tournaments Participated: 14
- Tournament Awards: 42
- State Qualifying Teams: 10
- World Qualifying Teams 1 (47E)



# EMS PTSA ROBOTICS

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- **Goal:**
  - As a team – design, build, & program a robot to attend one EMS league, two EMS and other local tournaments, and potentially qualify for State or even Worlds
- **Team Requirements**
  - Team size 3-5 students
  - Must have a parent coach (manager and possibly technical advisor)
  - 2+ hours of teamwork per week (per each team's discretion)
- 8 club teaching meetings on Wednesdays 2-3pm (Sept. – Nov.)
- Club meeting work time Wednesdays 2-3pm, 4 league sessions Wednesdays 2-4pm (Dec. – Feb.)
- After-season game (optional, end of March)
- Q&A at weekly meetings & by emails with coaches



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[Rapid Relay](#) – this year's game

Visit [PTSA Robotics Club](#) Webpage for information about this year's game, rubrics, etc.

# TOPICS COVERED IN CLUB MEETINGS

- Engineering notebook
- Structural design (theory & practical)
  - Chassis & arm construction
- Gearing basics
- Programming (blocks, text in C++)
- Tournament structure & strategy
- Presented by HS student coaches with VEX Worlds experience
- Club Meeting Materials:
  - Team robotics kit
  - Computer (school-issued is fine)

# TOURNAMENT DATES

- Four EMS League Sessions on 12/4, 1/8, 1/22 & 2/5
  - Mandatory to EMS teams
- Two EMS tournaments on 1/12 & 2/9
  - Mandatory to EMS teams
- Optional local tournaments from Nov. 2024 to Feb. 2025
- Potential to qualify for State (March) and Worlds (start of May)
- After-season club-organized game (end of March)

# HOW TO JOIN ROBOTICS CLUB

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The following process must be followed, step by step:

1. 3-5 students form a team (Club Chair **will not** form teams and **will not** force students onto other teams)
2. Find a parent/guardian willing to be team coach
3. Choose a team name
4. (Team Coach only) use [this link](#) to enter the team's information
5. (All students) complete [this permission slip](#) and submit to team coach
6. (Team Coach only) collect all slips and submit together to [robotics@evergreenpts.org](mailto:robotics@evergreenpts.org)
7. Upon receipt of payment and with all team members' permission slips, the team coach will be given a date and a time to pick up your robotics kit!

All steps must be completed **by September 16**. Registration might close early if the club maximum capacity is reached.



# PARENT COACH COMMITMENTS

- Be a PTSA member ([join here](#)) and an [LWSD approved volunteer](#)
- Follow the [Student-Centered Policy](#) released by REC Foundation
- Register team with Club using [this link](#)
- Manage all team activities and (if possible) mentor technically
- Coordinate parents and students and communicate with club chairs
- Organize and supervise outside of school meetings
- Be responsible for the team and the team conduct outside school and at tournament events

# REGISTRATION & EXPENSES

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## Per Student (paid to PTSA Robotics Club):

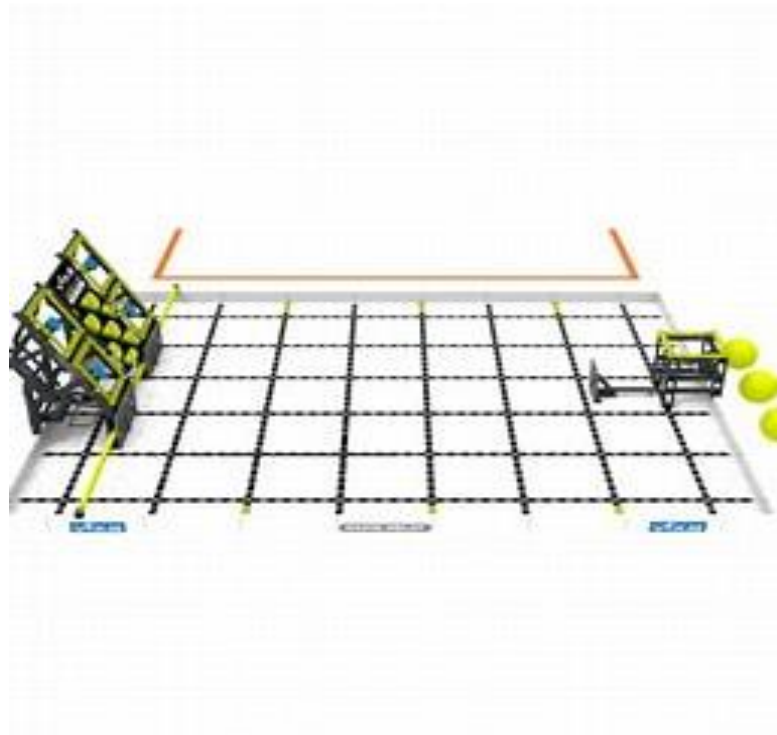
- \$40 Robotics club fee (covers parts expenses) collected at club registration

## Per Team (paid to REC Foundation later):

- ~\$45 one-time registration fee with REC Foundation to enter VEX IQ tournaments
- \$50-60 per local tournament (registration fee)
- (Optional) field & game elements (\$689) for individual team use
- Potentially more expenses for state and world competitions if teams qualify and wish to attend (travel cost for hotel and flight etc.)



# TOTAL COST ( INCLUDING TAX & SHIPPING ) : \$689



Game Elements Set  
[Order](#)



Field (Reusable)  
[Order](#)

# VOLUNTEERS

- Weekly Club Meeting Volunteers (Sep – Feb)
  - Three volunteers, to supervise the students before the meeting, setup field, help students check out parts
- EMS Tournament Helpers (>40 volunteers per tournament)
- Team Coaches
- Company Matching Volunteer Hours

# COMPETITION RESOURCES

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- Competitions are organized by [REC Foundation](#)
  - [WA VEX IQ events list](#) (on [robotevents.com](#))
  - [YouTube channel](#) - e.g. 2024 Coach Summit
- Hardware and software supplied by [VEX Robotics](#)
  - [YouTube channel](#)
  - [Discussion forums](#)
- [VEX Herobot Build Instructions](#)
- [Ben Lipper's Channel](#)
- [Other Repid Relay Robot Videos](#)
- [2021-22 Example Match](#)

# TRANSPORTATION

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- Robotics club welcomes and supports all students
- No yellow bus for after school activities, including robotics
- Consider forming a carpool group!
  - Drive less, have more time
  - Students get social time with friends and peers
  - Support students who can't participate otherwise
  - Better for the planet

# Find Your Ride

- RideshareOnline – <https://rideshareonline.com>
  - **Connect** with nearby families
  - **Carpool** in private vehicles
  - **Private** Evergreen Middle School group
  - Create an account or login, then request to join SchoolPool, use code EMS2024
- King County School Vanpool
  - Good for families that drive students to/from school daily
  - Very similar to corporate Vanpool
  - 2+ families and 3+ students join together to form a Vanpool
  - **Free** provided van after driver checks and application
- EMS PTSA Member Directory
  - Search for members by adult or student name - <https://evergreenptsa.org/Directory>



*Vanpool Interest Form*