

## Marshfield Robotics VEX World Qualifying Teams:

### 27905B-Provolone

Team Captain-Aiden Vandre (12)

Jordan Beil (12)

Simon Kloos (12)

Jacob Thompson (12)

(Grade)

#### 21-22 Season Awards:

- **Excellence Award**-Wausau Vex VRC Tournament
- **Tournament Champions**-Wausau Vex VRC Tournament
- **Excellence Award**-8th Annual Ishamon Harris Memorial VRC Tournament
- **Robot Skills Champion**-8th Annual Ishamon Harris Memorial Tournament
- **Tournament Champions**-8th Annual Ishamon Harris Memorial VRC Tournament
- **Amaze Award**-Wisconsin State Championship (Vex World Qualifier)
- **Tournament Finalist**-Wisconsin State Championship (Vex World Qualifier)



From Right-Left:

Aiden Vandre, Simon Kloos, Jordan Beil, Jacob Thompson

### 27905C-Muskrats

Team Captain-Ellak Flannigan-Warren (11)

Riley Degner (10)

Sonia Dissanayake (11)

Logan Seibel (12)

Matt Kloehn (12)

(Grade)

#### 21-22 Season Awards:

- **Create Award**- Wausau Vex VRC Tournament
- **Tournament Champions**-8th Annual Ishamon Harris Memorial VRC Tournament
- **Build Award**-Wisconsin State Championship (Vex World Qualifier)



From Right-Left:

Ellak Flannigan-Warren, Sonia Dissanayake, Riley Degner

## Marshfield Robotics VEX World Qualifying Teams:

### Award Definitions:

The **Amaze Award** is presented to a team that has built an amazing, high-scoring robot that clearly demonstrates overall quality.

Key criteria:

- Robot design is consistently high scoring
- Robot demonstrates a solid mechanical design and is robustly constructed to fulfill its designed task
- Robot programming is consistently effective and successful
- Students understand and explain how they worked together to develop their robot

The **Build Award** is presented to a team that has built a well-crafted and constructed robot.

Key criteria:

- Robot construction is of high quality; robust, clean, and effective use of materials
- Robot efficiently uses mechanical and electrical components
- Robot is designed with a clear dedication to safety and attention to detail
- Robot demonstrates reliability on the field and holds up under competition conditions
- Students understand and explain how they worked together to develop their robot

The **Excellence Award** is the highest award presented in the VEX Robotics competition. This award is presented to a team that exemplifies overall excellence in building a high-quality robotics program. This team is a strong contender in numerous award categories.

Key criteria:

- Engineering Notebook must be submitted (usually at team check-in)
- Ranking for Design Award
- Ranking for Qualification Matches
- Ranking for Robot Skills
- Ranking for other judged awards
- Quality of the team's interview with the Judges
- High-quality robotics program
- Team conduct

The **Robot Skills Champion Award** is presented to the team with the highest combined Programming Skills Challenge and Driving Skills Challenge score. A team's combined score

## **Marshfield Robotics VEX World Qualifying Teams:**

will be determined by adding their highest Programming Skills score and their highest Driving Skills score at a single event.

Skills uses the same game as the competition, but teams play by themselves trying to achieve the highest autonomous score using only programmed actions and a driver-controlled portion.

### **School District of Marshfield Robotics Team**

This marks the 5<sup>th</sup> school year for the School District of Marshfield Robotics Team. Some of our team members, who are seniors, have been participating and competing since the very first year when they were in 8<sup>th</sup> grade. Throughout this time Caleb Henderson, Technology Education teacher and Shawn Trudeau, former Technology Education teacher and current Technology Integration Specialist for the district have been co-advisors. This school year 3 teams competed at regional events in Wausau, Fond Du Lac, and Rice Lake. Team captains Aidan Vandre and Ellak Flannigan-Warren dedicate countless hours both inside and outside of school planning, designing, building, testing, watching match film, and documenting their design process. Their passion and hard work make the success of this season so special as it is a culmination of years of learning and work. Even though this is a competitive event that pits the Marshfield teams against one another they still work together to overcome challenges and have strong comradery.

Both Team 27905B “Provolone” and 27905C “Muskrats” had exemplary seasons and were invited to compete in the Wisconsin State Tournament. Team 27905B had been crowned “Tournament Champion” at two of the three regional events they attended. They also earned the most coveted “Excellence Award” at those two events which is the highest honor in Vex Robotics. To earn this award teams must not only have a highly competitive robot, but also great documentation of their design, teamwork, programming, and driving in the skills contest. At the State Championship 27905B was a state finalist and also won the “Amaze” award. Both of which were world contest qualifiers. Team 27905C spent most of their time leading up the state contest designing and building a pneumatically shifted transmission as part of their robot. This left little time for driving practice making early qualifications matches at the state contest challenging. Their efforts on design were rewarded though winning the “Build” award, and with it a world contest qualification spot.

### **About the Contest**

VEX Competitive Robotics is the largest competitive robotics organization in the world with over 4000 elementary, middle, and high school teams. The contest is based on a 12’x12’ field on which each year different game elements and scoring strategies are created to build a new contest. This year’s game is called “[Tipping Point](#)”. Teams construct robots starting when the game is revealed at the VEX World contest and continue building and refining their robot throughout the season. The competition starts with a 15 second period where their robots attempt to score points totally on their own based on programming. After this “autonomous” period, teams have one minute and forty-five seconds to drive their robot as they work with their alliance partner to score as many points as possible.

## **Marshfield Robotics VEX World Qualifying Teams:**

Teamwork and collaboration are an integral part because the game is played by “alliances” (two teams working together to face off against an opposing pair of teams). During qualification matches, teams compete in randomly selected alliances, and these alliances gather points throughout the morning matches. For the final matches, students must scout and strategize with other teams, and they are allowed to choose their alliance partner with the highest performing teams in qualification choosing first.

Beyond the competition on the field, there are also judges who through interviews and observation rate the team’s design, teamwork, problem solving, and documentation (each team must maintain a professional record of their design process and revisions).

## **About VEX Robotics VRC High School World Championship**

Vex Worlds is the largest robotics competition in the world with 800 invited high school teams. Each state has a limited number of qualification spots for VEX Worlds that are awarded based on State Championship performance. This year’s VRC High School World Contest is taking place in Dallas, TX on May 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup>.