

2023 Season Information Packet

FIRST Robotics Competition Team 5282

Railroader Robotics

<http://team5282.org>

Durand Area High School

9575 E. Monroe Rd.

Durand, MI 48429

Robotics Coach/ Head Mentor: Justin Shankster
810-347-3125, shankster@durand.k12.mi.us

Robotics Coach/ Head Mentor: Rebecca Shankster



Team Website:

- <http://team5282.org>
 - Calendar
 - 2023 Game Information
 - Team Information/History
 - Community Partners
 - Team Parts Suppliers
 - Awards
 - Contact Information

2023 Team Mentors:

Note* All team mentors/volunteers/parents serving more than two hours in cumulative time around students must have a [Volunteer Release Form](#) filled out and passed annually.

Justin Shankster: Head Mentor - Teacher at DHS

Rebecca Shankster: Head Mentor 2 - Administrator at DMS

Lee Reed: Build Mentor - Electrical Expert at dSPACE/ Parent of 2 DHS Robotics Alumni

Eric Helland: Build Mentor - Parent

Paul Mayers: Safety Mentor - Volunteer

Rich Renshaw - Build Mentor - Parent

Allyson Gillette: PR Mentor - Alumni of Team 5282

Jordan Shay: Programming Mentor - Kettering University Student/ Alumni of Team 5282

Aiden Stauble - Scout Mentor

What is FIRST Robotics?

FIRST ROBOTICS COMPETITION combines the excitement of sport with the rigors of science and technology. It's as close to "real world" engineering as a student can get.

- Coopertition – cooperation + competition
- Friends - Team building and Networking with peers
- Leadership opportunities in your area of interest
- Positive impact on community
- Millions available this year in FIRST Scholarship Opportunities www.firstinspires.org/

2022 Top Ten Team Financial Partners:

1. Annual State of Michigan Grant
2. Durand Area Schools
3. Graff Chevrolet of Durand
4. Lee Reed
5. dSPACE
6. Durand Area Schools Educational Foundation
7. Riverside Market of Durand
8. Allstate, Christi Johnson Insurance Agency Inc.
9. Bailey Family & Thrivent Financial
10. Meijer Store #44

2023 Team Financial Partners: (as of Dec. 12, 2022)

- Lee Reed
- Lyn Smith Insurance Agency DBA
- RC Hendrick & Son Inc.
- Stine Turf and Snow Removal
- Riverside Market of Durand
- Coffield Oil Company, Inc.
- Paul Mayers
- Graff Chevrolet-Durand, Inc.
- Durand Area Schools
- Annual State of Michigan Grant (expected)
- Shankster Family
- Meijer Store 44, Hill Rd.
- Ace Hardware
- dSPACE
- Durand Area Schools Educational Foundation

Team Communication for 2023 Season:

Parents and Mentors:

- Remind Texting - will be the official form of direct communication for the robotics team.
 - Sign up for text and email communications to and from Mr. Shankster at <https://www.remind.com/join/a643ca4> .
- Facebook Page - will be used for sharing photos from the team students and parents. It will also be used to put information out. With the overwhelming nature of Facebook it is recommended to not use this method for urgent contact of Mr. Shankster.
www.facebook.com/groups/durandrailroadersfirstrobotics/

Remind Texting



Facebook



Calendar



Students and Mentors:.

- Discord
 - Unofficial/ informal communication method between team members.

All Team Affiliates - Parents/Mentors/Students/Team Partners:

- Team Calendar - has team meeting schedules and competition information. You can add the Robotics Team 5282 Google calendar to your personal device.
 - <https://calendar.google.com/calendar/u/0/r?cid=uftgch10picuh8voiufoqe60o@group.calendar.google.com>
- Team Website
 - <http://team5282.org>

Team Website



Team Roles - Build Season to Competition:

During Build Season	At Competition	Skills Learned
Builder/Electrical	Pit Crew	<ul style="list-style-type: none"> • Learn to do aluminum/metal work including but not limited to drilling, riveting, tapping, cutting, milling and more. • Learn to use hand tools and power tools under the training and supervision of adult mentors. • Learn to use pneumatics, gears, pulleys, motors, sprocket & chain, belts and more
Drive Team	Drive Team/ Human Player	<ul style="list-style-type: none"> • Teamwork • Cooperation • Strategize
Programmer	Technician/ Scout	<ul style="list-style-type: none"> • Learn to program a robot using Java. • Learn how to use Visual Studio Code as a development environment. • Learn how to program a radio and motherboard to interface wirelessly to a computer control board.
Scout	Scout	<ul style="list-style-type: none"> • Learn how to use data to inform team decisions and strategy. • Learn how to collect data.
Safety	Safety Presentation	<ul style="list-style-type: none"> • Learn safety information that is applicable for robotics construction and testing. • Learn how to promote a culture of safety in the shop and at competition.
Awards	Awards Presentation	<ul style="list-style-type: none"> • Learn how to compete for awards through presentations and writing essays.
Public Relations	Representative/ Photographer/ Mascot	<ul style="list-style-type: none"> • Learn how to share our team's success with the community. • Take Photography/ Videography. • Plan and present team information to event judges. • Create Awareness of FIRST Robotics in the community. • Create team shirts and merchandise.

Team Snacks/ Food:

Parents:

High school students learn and work better with some food in their stomachs. Parents have traditionally provided snacks for students after school and meals at competitions. We're using SignUp.com to organize our upcoming Food and snack SignUps.

Here's how it works in 3 easy steps:

1) Click this link to see our SignUp on SignUp:

<https://signup.com/go/HfxQVDq>

2) Review the options listed and choose the spot(s) you like.

3) Sign up! It's Easy - you will NOT need to register an account or keep a password on SignUp.

Note: SignUp does not share your email address with anyone. If you prefer not to use your email address, please contact me and I can sign you up manually.



2023 Transportation to Competition Plans:

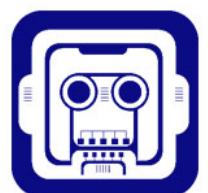
- Mentor Transport - must have a [volunteer release form](#) filled out, turned into the school and approved.
- **Parent** Transport Volunteers - must have a [volunteer release form](#) filled out, turned into the school and approved if transporting other students than your own children.
- Student Transport - no transporting other students unless they are siblings. Kettering is 15 minutes away and easy to get on/off Interstate 69. Mason High School is about 50 minutes away and takes Interstate 69 and Interstate 127.

2023 Whole Team Photos:

- Traditionally at the end of competition
- On the side of the competition field with any awards received and
- In front of the pit space before taking it down.

2023 Robotics Team 5282 Season Schedule:

- Preseason Meetings: TBD
 - Programmer Meetings: Each Wednesday, 2:30 - 4:00 pm
 - Preseason **Parent** Meeting: Thursday, January 5, 2022, 6:00-7:00 pm
 - Preseason Build Training/ Prep for Active Season: Wednesday, December 14, 2022; 2:30 - 4:00 pm
- Kickoff: Saturday, January 7, 2022 - Game Reveal for 2023 CHARGED UP
 - 11:30 am Broadcast Starts
 - Saturday, 12:00 noon (EST)
 - [Kickoff Info Link](#)
 - <https://www.firstinspires.org/robotics/frc/kickoff>
 - [FIRST YouTube Channel Link](#)
 - <https://www.youtube.com/user/FRCTeamsGlobal>
- Active Season Meetings: January 9 - March 8, 2023,
 - Monday - Friday, 2:30 - 4:30 pm...
 - Monday, Wednesday, Friday: Extended Hours for builders and essential team roles only until 6:00 pm
 - Saturday: 8-12 noon Builders only
 - Durand High School Art/Robotics Room
 - Pickup at the back door of the Robotics/Art classroom.
 - No pickup in front of school (robotics coach must know when students are picked up)
- **FIM Kettering #1 Competition Event:** March 2-4, 2023 (Thursday - Saturday)
 - Kettering University, 1700 University Avenue Recreation Center, Flint, MI USA
- **FIM Lansing Competition Event:** March 9-11, 2023 (Thursday - Saturday)
 - Mason High School, 1001 S. Barns Street, Mason, MI USA
- **Spring Break/ No Meetings:** Friday, March 24, 2023 - April 2, 2023
- **FIM State Competition (tentative/ need qualifying scores to attend):**
 - April 5 - 9, 2023
 - Saginaw Valley State University Ryder Center, 7400 Bay Road, University Center, MI USA



STUDENT NAME: _____

Durand High School Robotics Team TRAVEL PERMISSION SLIP

I give permission for my Durand High School student to travel with a district approved adult to attend the scheduled robotics competitions listed below:

FIM Kettering #1 Event: March 2-4, 2023 (Thursday - Saturday)
Kettering University 1700 University Avenue Recreation Center Flint, MI USA

FIM Lansing Event: March 9-11, 2023 (Thursday - Saturday)
Mason High School, 1001 S. Barns Street, Mason, MI USA

FIM State Competition (tentative/ need qualifying scores to attend): April 5 - 9, 2023 (Wednesday - Saturday)
Saginaw Valley State University Ryder Center 7400 Bay Road University Center, MI USA

Parent/Guardian Phone 1: _____ Parent/Guardian Phone 2: _____

Parent/Guardian signature: _____ Date: _____

Cut and keep - - - - -

Durand High School Robotics Team Competition Schedule

FIM Kettering #1 Event: March 2-4, 2023 (Thursday - Saturday)
Kettering University 1700 University Avenue Recreation Center Flint, MI USA

- Thursday (builders, drive team and select others stay after school pack up trailer, stop to eat out, and travel to setup pit and robot for competition, return to Durand High School at about 10:15 pm)
- Friday (7:30 am whole team travels to competition, returns to Durand High School at about 8:15 pm)
- Saturday (7:30 am whole team travels to competition, returns to Durand High School at about 6:45 pm; everyone helps unpack and is ready for pickup at 7:00 pm)

FIM Lansing Event: March 9-11, 2023 (Thursday - Saturday)
Mason High School, 1001 S. Barns Street, Mason, MI USA

- Thursday (builders, drive team and select others stay after school pack up trailer, stop to eat out, and travel to setup pit and robot for competition, return to Durand High School at about 10:30 pm)
- Friday (7:00 am whole team travels to competition, returns to Durand High School at about 8:45 pm)
- Saturday (7:00 am whole team travels to competition, returns to Durand High School at about 7:15 pm; everyone helps unpack and is ready for pickup at 7:30 pm)

FIM State Competition (tentative/ need qualifying scores to attend): April 5 - 9, 2023 (Wed. - Sunday)
Saginaw Valley State University Ryder Center 7400 Bay Road University Center, MI USA

- Wednesday (builders, drive team and select others stay after school pack up trailer, stop to eat out, and travel to setup pit and robot for competition, return to Durand High School at about 10:30 pm)
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Lead Coach Contact Information

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810-347-3125, shankster@durand.k12.mi.us