



CRESCENDOSM

PRESENTED BY **HAA5**
Gene Haas Foundation



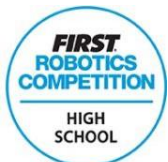
FIRST in Michigan District Event

Grand Valley State University March 21-23, 2024

Thank you to our Event Sponsor:



Visit www.firstinmichigan.org to start a team or expand the reach of FIRST in your area!



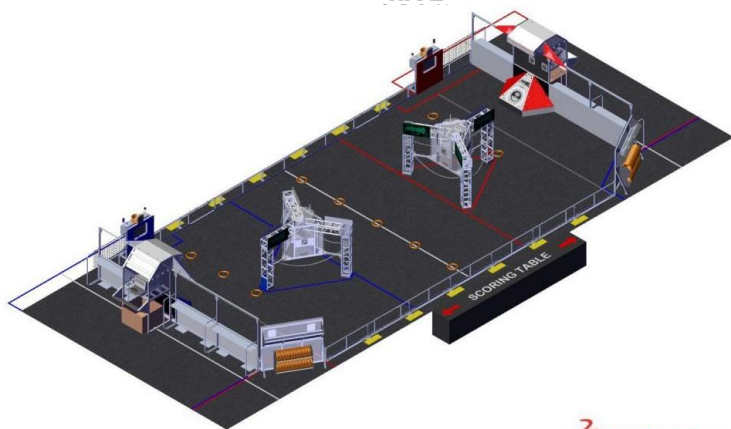
Participating Teams

TEAM	NAME	SCHOOL/ORGANIZATION	CITY
85	B.O.B. (Built on Brains)	Zeeland West High School Zeeland East High School	Zeeland
107	Team R.O.B.O.T.I.C.S.	Holland Christian High School	Holland
141	WOBOT	West Ottawa High School	Holland
216	More RoboDawgs	Grandville High School	Grandville
244	RoboDawgs 3D	Grandville High School	Grandville
288	The RoboDawgs	Grandville High School	Grandville
1918	NC GEARS	Family/Community	Fremont
2145	HAZMATS	Lake Fenton High School	Linden
2767	Stryke Force	Kalamazoo County 4-H	Kalamazoo
2959	Robotarians	Our Lady of the Lake Catholic School Bridgman High School Coloma High School Michigan Lutheran High School	Coloma
3234	Red Arrows	Lowell High School	Lowell
3357	COMETS	Forest Hills School District	Grand Rapids
3458	Code Blue	Home School	Holland
3546	Buc'n'Gears	Grand Haven High School	Grand Haven
3572	Wavelength	Mona Shores Senior High School	Muskegon
4003	TriSonics	Allendale High School	Allendale
4855	Ramageddon	LC Mohr High School	South Haven
5248	Robo-Saxons	Hastings High School	Hastings
5470	The Cowpunchers	Coopersville High School	Coopersville
5610	Turbulence	Saugatuck Middle High School	Saugatuck
5675	WiredCats	Mattawan High School	Mattawan
5927	Globetrotters	iCademy Global	Zeeland
5980	East Grand Rapids Robotics	East Grand Rapids High School	Grand Rapids
6002	ZooBOTix	Kalamazoo Central High School	Kalamazoo
6090	Wayland Wildcats	Wayland Union High School	Wayland
6094	Manic Mechanics	Montague High School	Montague
6114	Hamilton CyberHawks	Hamilton High School	Hamilton
6121	RoboVikes	Grayling High School	Grayling
6428	STEMINEERS	Coopersville High School	Coopersville
6877	Mechanical Mustangs	Northpointe Christian School	Grand Rapids
7054	SC Sailors	South Christian High School	Byron Center
7211	Hollywood	Holly High School	Holly
7248	Tactical Hams	Potters House High School	Wyoming
7598	SCA Constellations	St Catherine of Siena Academy	Wixom
8397	Astrobots	Kelloggsville High School	Grand Rapids
8611	Cyber Patriots	Cadillac Heritage Christian High School	Cadillac
9205	Technical Marauders1	American International Academy	Inkster
9206	GRP Titans	Grand River Prep High School	Grand Rapids
9223	Brick and Mortar	Newaygo High School	Newaygo
9248	Orchard View Cyber Cardinals	Orchard View High School	Muskegon
9721	Redhawk Robotics	Cedar Springs High School	Cedar Springs

Understanding the Game

CRESCENDOSM

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SOLIDWORKS
Modeling Solutions Partner

CRESCENDO is played with 2 alliances of 3 robots each. Alliances can be identified by the color of their bumpers. Each match is 2 minutes and 30 seconds long with 2 distinct modes of driving:

Autonomous Mode (first 15 seconds): Robots operate only on pre-programmed instructions to score points. Autonomous mode ends with a field sound.

Teleoperated Mode (remaining 135 seconds): Drivers take control of the robots from behind the glass at the ends of the field.

AUTONOMOUS PERIOD SCORING:

- 2 pts For each robot who has left the area from which it started
- 2 pts For each note scored in the amp (short goal)
- 5 pts For each note scored in the speaker (tall goal)

TELEOPERATED PERIOD SCORING:

- 1 pt For each note scored in the amp
- 2/5 pts For each note scored in a non-amplified or amplified speaker
- 1/3 pts For each robot finishing the game in the stage area or on a chain
- 4 pts For each robot on a chain whose post has a high note scored on it
- 2 pts For multiple robots on the same chain
- 5 pts For each note scored in the trap (pocket above a chain)

The alliance with the highest score at the end of the match after penalties are assessed wins!

Tournament Schedule

FRIDAY

Pits open	8:00 AM
Opening ceremonies	10:30 AM
Matches begin	11:00 AM
Lunch begins	1:00 PM
Lunch ends, matches resume	2:00 PM
Matches end	7:00 PM

SATURDAY

Pits open	8:00 AM
Opening ceremonies	9:00 AM
Matches begin	9:30 AM
Alliance Selections	12:30 PM
Lunch begins	1:00 PM
Playoff rounds begin	2:00 PM
Awards during playoff time-outs	3:30 PM
Pits close*	6:30 PM

Schedule subject to change.

*Pits will close at scheduled time of or one hour after the first day's last match or close of the awards, whichever is later.

We wish to thank all of our program sponsors:

