



FIRST ROBOTICS ONTARIO DISTRICT COMPETITION
Newmarket Complex Event
March 8-10, 2024

FIRST IN SHOW

PRESENTED BY **Qualcomm**

WELCOME

Greetings, *FIRST*® Robotics Competition teams and welcome to another year filled with creativity, big ideas and bold action!

We're thrilled to see you take the stage for CRESCENDOSM presented by Haas, part of the 2023-2024 cross-program season, *FIRST*® IN SHOWSM presented by Qualcomm. This year, we're shining a spotlight on the role STEM plays in the arts and how it empowers young people, like you, to design and build a world of endless possibilities.

Take a moment to consider just how intertwined STEM and the arts often are. So much of the artistic content we produce and consume has been inspired and brought to life by STEM. It's our STEM skills that help us design a logo, costume, or movie set from a blank canvas, 3-D print a sketch, light the stage for a photoshoot, or rock an arena with a jaw-dropping performance. Our skills and knowledge empower us to be creative, pursue our big ideas, and build what some may only dream of.

To our teams competing this year, congratulations. Your creative spirit, acts of *Gracious Professionalism*®, and collective passion for making a positive difference in the world have touched the hearts of your peers, mentors, local communities, and all of us here at *FIRST*.

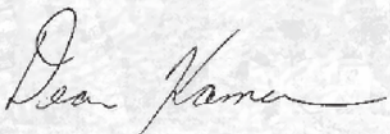
And to the mentors, parents, volunteers, partners, sponsors, donors, alumni, and many supporters who invest in *FIRST* participants in countless ways: thank you. You empower students to explore their full potential, forge new paths, and find ways to make an impact, do good, and inspire others to do the same.

As you all step onto the competition stage, remember that *FIRST* is *More Than Robots*®. Your journey with *FIRST* will help you design your life's path, from building perseverance as you overcome obstacles to illuminating career paths you might not have considered – including those in the arts. Just ask our esteemed alumni, some of whom became audio engineers, architectural visualization specialists, VFX artists, cinematographers and more, all while remaining an integral part of our STEM community.

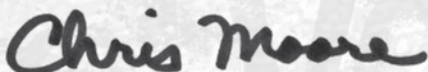
By embracing the connections between STEM and the arts, you're not only shaping the future of technology and science but pioneering the frontiers of human creativity.

The boundaries of what's possible are stretched and reshaped by your collective imagination and resilience, and we can't wait to see the wonders you'll create.

With that said – Lights, Camera, STEAM!
Sincerely,



Dean Kamen, *FIRST* Founder



Chris Moore, *FIRST* CEO



Dean Kamen



Chris Moore

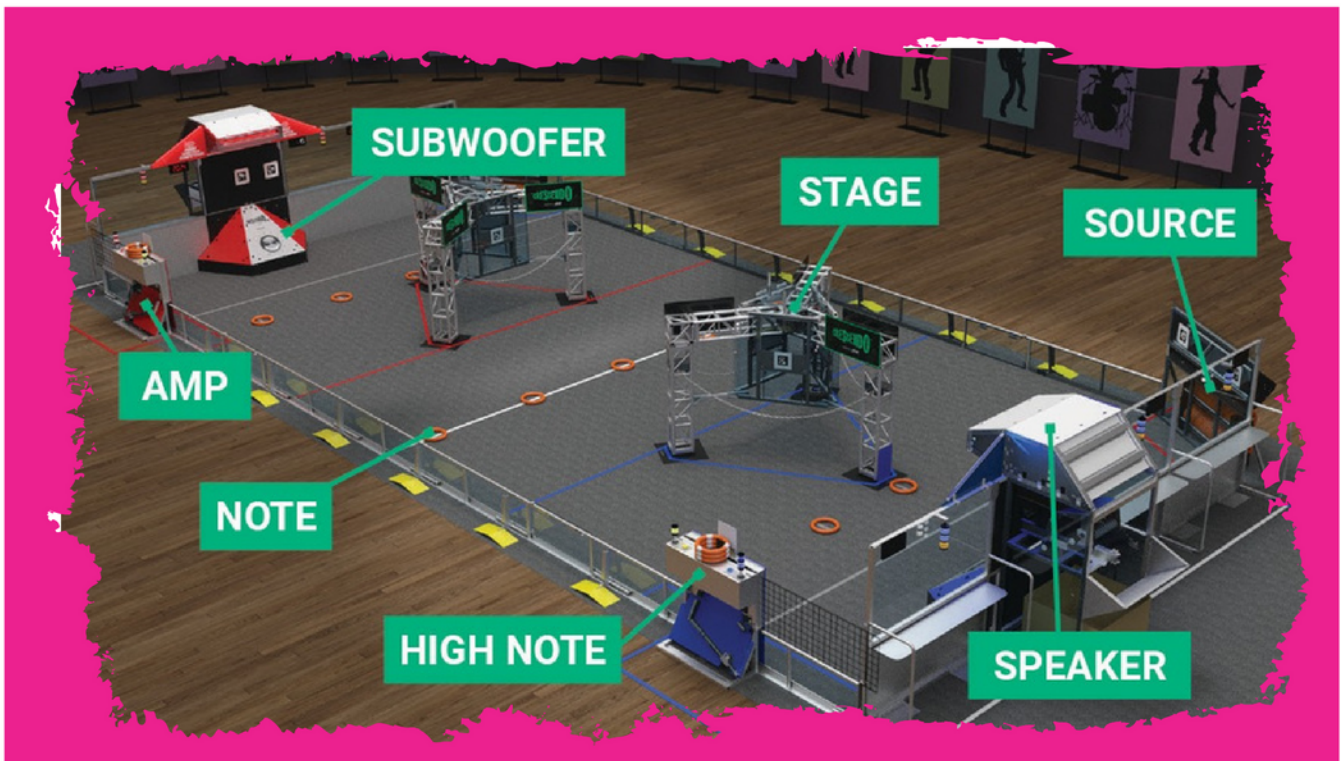
CRESCENDOSM

PRESENTED BY 
Gene Haas Foundation

Gameplay

Inspired by the art and experiences that entertain us and move us CRESCENDOSM presented by Haas will shine the spotlight on the impact that engineering and innovation have on art.

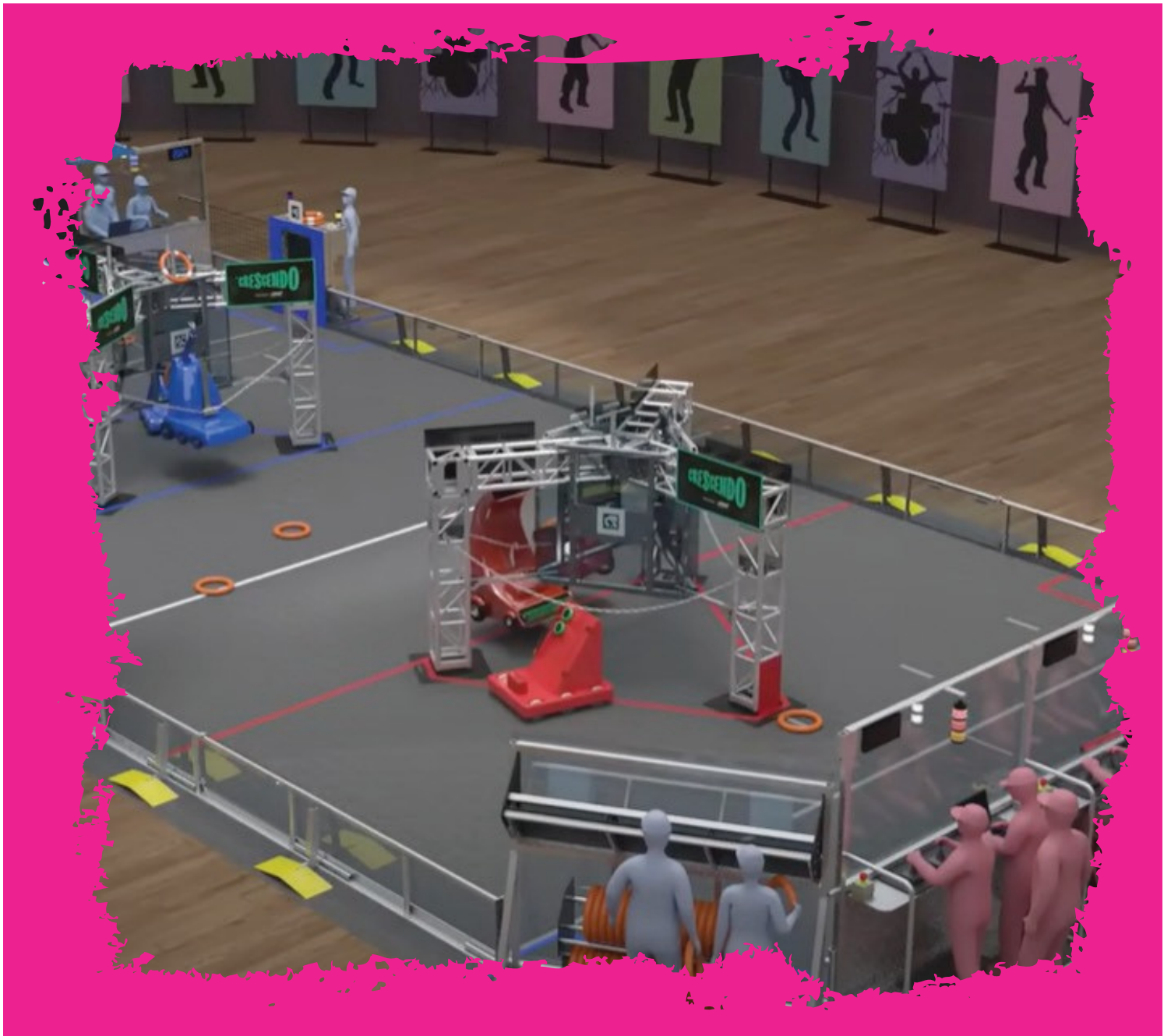
- Teams will use their STEM skills and creative power to turn up the volume as they design, build, and program their robots for action-packed game play.
- Each match begins with a 15-second autonomous period, during which robots operate only by pre-programmed instructions to move from their starting positions and score game pieces, called notes, into their two goals: the speaker and the amp. They also use this time to collect additional notes from around the field.
- In the remaining 2 minutes and 15 seconds, drivers control their robots and continue earning points through strategic match play. Once two notes are scored in an alliance's amp, the human player can hit a button to increase the value of notes scored in their speaker for 10 seconds.
- At the end of the match, robots race to climb on chain, score notes in a pocket called a trap, and harmonize by hanging multiple robots on a single chain. Humans throw high notes onto their microphones to boost points associated with robots on the corresponding chains.
- The alliance with the highest score at the end of the match wins!



View the 2024 game animation for the 2024 *FIRST* Robotics Competition game, CRESCENDO.



Scan to View Animation



This is a complete list of *FIRST* Robotics Competition awards. Please note that different event types (e.g. Regional events, District Events, District Championships, Championship) offer a different set of awards. Not every award is presented at every *FIRST* Robotics Competition event.

Autonomous Award

Celebrates the team that has demonstrated consistent, reliable, high-performance robot operation during autonomously managed actions. Evaluation is based on the robot's ability to sense its surroundings, position itself or onboard mechanisms appropriately, and execute tasks.

Creativity Award *sponsored by Rockwell Automation*

Celebrates creativity that enhances strategy of play and was intentionally designed and not discovered.

Digital Animation Award *sponsored by AutomationDirect.com*

Celebrates the art of the digital animation and its close relationship to STEAM (Science, Technology, Engineering, Art, and Mathematics).

Engineering Inspiration Award

Celebrates outstanding success in advancing respect and appreciation for engineering within a team's school and community.

Excellence in Engineering Award

Celebrates the team that demonstrates a professional approach to the design process.

Finalist

Celebrates the Alliance that makes it to the final match of the competition.

FIRST Dean's List Award

Celebrates outstanding student leaders whose passion for and effectiveness at attaining *FIRST* ideals is exemplary.

FIRST Impact Award

The most prestigious award at *FIRST*, it honors the team that best represents a model for other teams to emulate and best embodies the purpose and goals of *FIRST*.

Founder's Award

Recognizes the organization or individual that has contributed significantly to the growth of *FIRST*.

Gracious Professionalism Award

Celebrates outstanding demonstration of *FIRST* Core Values such as continuous *Gracious Professionalism* working together both on and off the playing field.

Imagery Award *in honor of Jack Kamen*

In honor of Jack Kamen, Dean's father, for his dedication to art and illustration and his devotion to *FIRST*. This award celebrates attractiveness in engineering and outstanding visual aesthetic integration of machine and team appearance.

Industrial Design Award *sponsored by General Motors*

Celebrates the team that demonstrates industrial design principles, striking a balance between form, function, and aesthetics.

Innovation in Control Award

Celebrates an innovative control system or application of control components – electrical, mechanical, or software – to provide unique machine functions.

Judges' Award

During the course of the competition, the judging panel may decide a team's unique efforts, performance, or dynamics merit recognition.

Quality Award

Celebrates machine robustness in concept and fabrication.

Rookie All-Star Award

Celebrates the rookie team exemplifying a young but strong partnership effort, as well as implementing the mission of *FIRST* to inspire students to learn more about science and technology.

Rookie Inspiration Award

Celebrates a rookie team's outstanding success in advancing respect and appreciation for engineering and engineers, both within their school, as well as in their community.

Safety Animation Award *sponsored by UL Solutions*

Recognizes the team that submits a short animated film that best promotes the current season's team safety focus.

Team Spirit Award

Celebrates extraordinary enthusiasm and spirit through exceptional partnership and teamwork furthering the objectives of *FIRST*.

Team Sustainability Award *sponsored by Dow*

Celebrates and recognizes a team which has developed sustainable practices to have a positive environmental impact and achieve long-term continuity.

Volunteer of the Year Award

Presented to an individual, business, or organization that consistently excels in their efforts, with proven results in the areas of impact, leadership, personal commitment, community, and historical contributions.

Winner

Celebrates the Alliance that wins the competition.

Woodie Flowers Finalist Award

Presented to an outstanding Mentor in the robotics competition who best leads, inspires, teaches, and empowers their team using excellent communication skills.

CRESCENDOSM

PRESENTED BY  **HAAS**
Gene Haas Foundation



STATS

(AS OF 01/04/2024)

- 33rd Season Game: CRESCENDOSM presented by Haas
- 3,468 Teams
 - 3,141 Veteran Teams
 - 327 Rookie Teams
- 86,700+ Youth Team Members
- 27,700+ Mentors/Adult Supporters
- 28 countries:
 - Australia (36 teams) Israel (62 teams)
 - Azerbaijan (1 team) Japan (6 teams)
 - Belize (1 team) Mexico (86 teams)
 - Brazil (57 teams) Netherlands (3 teams)
 - Bulgaria (1 team) Panama (1 team)
 - Canada (202 teams) Philippines (1 team)
 - China (22 teams) Poland (1 team)
 - Chinese Taipei (28 teams) Romania (1 team)
 - Colombia (1 team) Singapore (1 team)
 - Croatia (1 team) Sweden (1 team)
 - Czech Republic (2 teams) Switzerland (1 team)
 - Dominican Republic (2 teams) Türkiye (138 teams)
 - France (3 teams) United Kingdom (3 teams)
 - India (6 teams) USA (2,800 teams)

EVENTS

- 144 Live Kickoff events and streaming on FIRSTtv
- (01/06/2024) 62 Regional Events
- 98 District Events
- 11 District Championships:
 - Chesapeake, Indiana, Israel, Michigan, Mid-Atlantic, New England, North Carolina, Ontario, Pacific Northwest, Peachtree, Texas/New Mexico Districts
- 1 FIRST® Championship Event: April 17 - 20, 2024

KIT OF PARTS FACTS

- Items from more than 65 in-kind donors
- Nearly 500 different items distributed via the Kit of Parts system
- More than 72 tons of Kickoff Kit materials shipped all over the world by FedEx (weighing more than 150 grand pianos)

ROBOT FACTS

- Weight: up to approximately 125 lbs.
- total Robots are remotely controlled
- Powered by a 12-volt battery

FIELD FACTS

- Playing area: 27' W x 54' L
- Teams score game pieces, called Notes, in their Amp and Speaker
- As time runs out, robots race to get onstage and deliver Notes to their Traps

ALUMNI

- Participants and alumni of FIRST programs gain access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the FIRST community for life.
- Visit firstinspires.org/alumni

FIRST IN SHOWSM

PRESENTED BY 

For the latest information on these events, visit frc-events.firstinspires.org/

Feb 26-27

ISR District Event #1
Hadera, Israel

Feb 28-29

ISR District Event #2
Hadera, Israel

Feb 28-Mar 02

Canadian Pacific Regional
Victoria, BC

Brazil Regional
Brazilia, Brazil

Festival de Robotique Regional
Montreal, QC

Greater Pittsburgh Regional
Pittsburgh, PA

Lake Superior Regional
Duluth, MN

Northern Lights Regional
Duluth, MN

Regional Monterrey
Monterrey, Mexico

South Florida Regional
Fort Lauderdale, FL

Utah Regional
West Valley City, UT

Feb 29-Mar 02

FIT District Katy Event
Katy, TX

FIT District Waco Event
Waco, TX

FIM District Kettering University
Event #1
Flint, MI

FIM District Milford Event
Highland, MI

NE District Granite State Event
Salem, NH

PNW District Clackamas Academy
Event
Oregon City, OR

Feb 29-Mar 03

Hueneme Port Regional
Port Hueneme, CA
Silicon Valley Regional
San Jose, CA

Mar 01-03

CHS District Ashland VA Event
Ashland, VA

CHS District Blacksburg VA Event
Blacksburg, VA
FMA District Hatboro-Horsham
Event
Horsham, PA

FMA District Mount Olive Event
Flanders, NJ

FIN District Mishawaka Event
Mishawak, IN

FIM District Battle Creek Event
Battle Creek, MI

FIM District Berrien Springs Event
Berrien Springs, MI

FIM District Jackson at Columbia
Event
Brooklyn, MI

NE District Hartford Event
Hartford, CT

FNC District Orange County Event
Chapel Hill, NC

PNW District Glacier Peak Event
Snohomish, WA

Mar 03-06

Smoky Mountains Regional
Knoxville, TN

Mar 05-07

Istanbul Regional
Sarıyer, Türkiye

Mar 06-09

Arkansas Regional
Searcy, AR
Central Missouri Regional
Sedalia, MO

Great Northern Regional
Grand Forks, ND

Green Country Regional
Tulsa, OK

Hudson Valley Regional
Suffern, NY

Mar 07-09

FIT District Belton Event
Belton, TX

FIM District Belleville Event
Belleville, MI

FIM District Escanaba Event
Escanaba, MI

FIM District Kettering University
Event #2
Flint, MI

FIM District St. Joseph Event
St. Joseph, MI

PNW District Oregon State
Fairgrounds Event
Salem, OR

PCH District Anderson Event
presented by MAGNA
Anderson, SC
PCH District Dalton Event
Dalton, GA

Mar 07-10

San Francisco Regional
San Francisco, CA
Ventura County Regional
Port Hueneme, CA

Mar 08-10

CHS District Portsmouth VA Event
Portsmouth, VA

FIT District Plano Event
Plano, TX

FIM District Woodhaven Event
Brownstown Charter Twp, MI

FMA District Allentown Event
Allentown, NJ

FMA District Seneca Event
Tabernacle, NJ

FIM District Lake City Event
Lake City, MI

NE District BSU Event
Bridgewater, MA

NE District Waterbury Event
Waterbury, CT

FNC District UNC Pembroke Event
Pembroke, NC

ONT District Centennial College
Event
Scarborough, ON

ONT District Newmarket Complex
Event
Newmarket, ON

PNW District Auburn Event
Auburn, WA

Bosphorus Regional
Sarıyer, Türkiye

Mar 11-12

ISR District Event #3
Hadera, Israel

Mar 13-14

ISR District Event #4
Hadera, Israel

Mar 13-16

Arizona Valley Regional
Scottsdale, AZ
Central Illinois Regional
Peoria, IL

Finger Lakes Regional
Rochester, NY

Heartland Regional
Shawnee, KS

Magnolia Regional
Laurel, MS

Regional Hermosillo
Hermosillo, Mexico

Sacramento Regional
Elk Grove, CA
Tallahassee Regional
Tallahassee, FL

Mar 14-16

FIT District Fort Worth Event
Fort Worth, TX

FIT District San Antonio Event
San Antonio, TX

FIM District LSSU Event
Sault Ste. Marie, MI

FIM District Muskegon Event
Muskegon, MI

FIM District Traverse City Event
Traverse City, MI

FIM District Wayne State Event
Detroit, MI

NE District URI Event
Kingston, RI

PNW District SunDome Event
Yakima, WA

Mar 14-17

Los Angeles Regional
El Segundo, CA
Wisconsin Regional
Milwaukee, WI

Mar 15-17

CHS District Glen Allen VA Event
Glen Allen, VA

CHS District Severn MD Event
Severn, MD

FMA District Montgomery Event
Skillman, NJ

FMA District Springside Chestnut
Hill Event
Philadelphia, PA

FIN District Columbus Event
Columbus, IN

FIM District Ann Arbor Event
Ann Arbor, MI

NE District North Shore Event
Reading, MA

NE District Pine Tree Event
Lewiston, ME

FNC District UNC Asheville Event
Asheville, NC

ONT District Durham College
Event

Oshawa, ON

ONT District Georgian Event
Barrie, ON

PNW District Bonney Lake Event
Bonney Lake, WA

PCH District Gwinnett Event
Lawrenceville, GA

For the latest information on these events, visit frc-events.firstinspires.org/

Southern Cross Regional
South Windsor, Australia

Mar 18-20

ONT District Humber College
Event
Toronto, ON

Mar 19-21

FIRST Israel District
Championship

Jerusalem, Israel
Haliç Regional
Sarıyer, Türkiye

Mar 20-23

Arizona East Regional
Tempe, AZ

Buckeye Regional

Cleveland, OH

Colorado Regional

Denver, CO

FIRST Long Island Regional

Hempstead, NY

Idaho Regional

Nampa, ID

Iowa Regional

Cedar Falls, IA

New York Tech Valley Regional

Albany, NY

Orlando Regional

Orlando, FL

Regional Laguna presented by
Peñoles

Torreón, Mexico
St. Louis Regional
St. Louis, MO

Mar 21-23

FIT District Dallas Event
Dallas, TX

FIM District Lansing Event
Mason, MI

FIM District Midland Event
Midland, MI

FIM District West Michigan Event
Allendale, MI

ONT District University of
Waterloo Event

Waterloo, ON

PNW District Wilsonville Event
Wilsonville, OR

PCH District Carrollton Event
Carrollton, GA

PCH District Charleston Event
N. Charleston, SC

Mar 21-24

Central Valley Regional
Fresno, CA

San Diego Regional presented by
Qualcomm
La Jolla, CA

Mar 22-24

CHS District Falls Church VA
Event presented by Department
of Energy
Falls Church, VA

CHS District Owings Mills MD
Event
Owings Mills, MD

FIT District Houston Event
Houston, TX

FMA District Bensalem Event
Bensalem, PA

FMA District Warren Hills Event
Washington, NJ

FIN District Plainfield Event
presented by Carrier
Plainfield, IN

FIM District Livonia Event
Livonia, MI

FIM District Troy Event #1
Troy, MI

NE District Greater Boston Event
Revere, MA

NE District Western NE Event
Springfield, MA

FNC District Mecklenburg County
Event

Charlotte, NC
FNC District Wake County Event
Wake Forest, NC

ONT District North Bay Event
North Bay, ON

PNW District Sammamish Event
Bellevue, WA

Marmara Regional
Sarıyer, Türkiye

Mar 27-30

Las Vegas Regional
Las Vegas, NV
Midwest Regional
Chicago, IL

Monterey Bay Regional
Seaside, CA

Orange County Regional
Costa Mesa, CA

Mar 28-30

FIT District Amarillo Event
Amarillo, TX

FIT District Space City @
Friendswood Event
Friendswood, TX

FIM District Kentwood Event
Kentwood, MI

FIM District Macomb Community
College Event
Sterling Heights, MI

FIM District Central Michigan
University Event
Mt. Pleasant, MI

FIM District Renaissance Event
Detroit, MI

FIM District Troy Event #2
Troy, MI

FIN District Washington Event
presented by Toyota
Washington, IN

NE District UNH Event
Durham, NH

ONT District McMaster University
Hamilton, ON

ONT District Windsor Essex Great
Lakes Event

Windsor, ON
PCH District Albany Event
Albany, GA

Mar 29-31

NE District WPI Event
Worcester, MA

Apr 03-06

FIRST In Texas District
Championship
Houston, TX

New England *FIRST* District
Championship
West Springfield, MA

FIRST Ontario Provincial
Championship
Mississauga, ON

Pacific Northwest *FIRST* District
Championship
Portland, OR

Aerospace Valley Regional
Lancaster, CA

Bayou Regional
Kenner, LA

Greater Kansas City Regional
Lee's Summit, MO

Hawaii Regional
Honolulu, HI

Miami Valley Regional
Cincinnati, OH
Minnesota 10,000 Lakes Regional
Minneapolis, MN

Oklahoma Regional
Oklahoma City, OK

Rocket City Regional
Huntsville, AL

Seven Rivers Regional
La Crosse, WI

Apr 04-06

FIRST Mid-Atlantic District
Championship
Bethlehem, PA

FIRST in Michigan State
Championship

University Center, MI

Peachtree District Championship
Macon, GA

Apr 04-07

FIRST Chesapeake District
Championship

Petersburg, VA
East Bay Regional
Berkeley, CA

Minnesota Granite City Regional
St. Cloud, MN

New York City Regional
New York, NY

Apr 05-07

FIRST Indiana State Championship
Lafayette, IN

FIRST North Carolina District State
Championship

Greenville, NC

April 17-20

2024 *FIRST* Championship
presented by BAE Systems
Houston, TX

Abbreviation Key

CHS – *FIRST* Chesapeake
FIM – *FIRST* in Michigan
FMA – *FIRST* Mid-Atlantic
FNC – *FIRST* North Carolina
FTA – *FIRST* in Texas
FIN – *FIRST* in Indiana
NE – New England *FIRST*
ONT – *FIRST* Ontario
PCH – Peachtree
PNW – Pacific Northwest
ISR – *FIRST* Israel

Team Number	Team School/Organization	Nickname	City	Rookie Year
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Canada— Newmarket District Event

610	Crescent School/Doc-Chef Culinary Enterprise/Heliolytics/Telus/Taplytics/Extrude-A-Trim&Crescent School	Crescent Coyotes	Toronto	2001
771	Collins Aerospace Systems/Hatch/Shaw Almex&St. Mildred's Lightbourn School	SWAT	Oakville	2002
865	Toronto District School Board/Motorola Solutions Foundation/The Optimist Club of Etobicoke/AFA Systems Ltd./Google/Bissell/Landcare/WARP7 Parents & Supporters&Western Technical-Commercial School	WARP7	Toronto	2002
1114	General Motors/Ontario Power Generation/FIRST Canada/Vykan/Johnson & Johnson/Embark&Governor Simcoe Secondary School	Simbotics	St Catharines	2003
1305	Canadore College/Nipissing University/PEO North Bay Chapter/Near North District School Board/General Motors/Enbridge Gas&Near North Student Robotics Initiative	Ice Cubed	North Bay	2004
2056	ArcelorMittal Dofasco/GM/HWDSB&Orchard Park Secondary School	OP Robotics	Stoney Creek	2007
2386	Arcelor Mittal Dofasco/Halton District School Board/Pathways/BMP Metals/Bentley Systems/FeedRite Automation/Hatch/Studica/iCubed/Powerhouse Controls/Taylor Steel/B & D Steel/Penta Properties/Sew 'n Stuff/Klearview&Burlington Central High School	Trojans	Burlington	2008
2706	General Dynamics Mission Systems Canada/Apple/MVS Remote Video Systems Inc./Collins Aerospace/Enbridge Gas/Northern Lights Educational Services/SolidWorks/Ottawa West Community Robotics & Neighborhood Group	Merge Robotics	Ottawa	2009
4015	St. Joseph Secondary School	Jag	Mississauga	2012
4039	John Deere/General Motors/Novelis/Magna International/Hickory Dickory Decks/TCA Technologies/The Giovinazzo Family/Shift It Solutions/Team-1 Academy/Comfort First Heating and Cooling/Canadian Tire Dundas/Internet Marketing Geeks/Tegs Tools and Machinery/Turkstra Lumber/Hamilton-Wentworth Catholic District School Board&St. Mary Catholic Secondary School	MakeShift Robotics	Hamilton	2012
4152	Marwood International/Kimberly-Clark/Seals For Life/Rotary Club of Huntsville&Huntsville High School	Hoya Robotics	Huntsville	2012
4343	Magna/York Catholic District School Board/TD Synnex & Dell Technologies/Clover Tool Manufacturing Limited/STEM Minds/Town of Aurora/Home Hardware/Rotary Club of Aurora/TACC Developments/Staples - Solution Shop /Antoinette Catenacci (Haute Couture)/BALLUFF/Irwin Industrial/Optimist Club of Aurora/Princess Auto&St Maximilian Kolbe Catholic High School	MaxTech	Aurora	2012
4476	Kingston Community Health Centres/BGC South East/Novelis/Pure Ingenuity/TC Energy&W.A.F.F.L.E.S. Community Robotics	W.A.F.F.L.E.S.	Kingston	2013

Team Number	Team School/Organization	Nickname	City	Rookie Year
Canada— Newmarket District Event - Cont				

4940	FCA Foundation/Centerline/Paragon Professional Engineering&Holy Names Catholic High School	Knight Vision	Windsor	2014
4951	The Country Day School	CDS Cyclones	King	2014
4976	Flodraulic/Hey Ray Real Estate/Georgetown Rotary Club/Canadian Tire&Georgetown District High School	Revolt Robotics	Georgetown	2014
5024	TR Electronic/Enbridge Gas Inc/London Children's Museum/Cornerstone Architecture Incorporated/Thameford Lion's Club/Swish Maintenance limited/Thames Valley District School Board&HB Beal Secondary School	Raider Robotics	London	2014
6514	RBC Wealth Management PH&N Investment Counsel&SUTTON DISTRICT HIGH SCHOOL	Sutton Robotics League	Sutton West	2017
6854	Thames Valley DSB/North Aircraft/North London Toyota/BOS Innovations/Starlim/Ontario Public Service Employees Union (OPSEU)/London Enconomic Development Corporation/Presitige Car Wash/Real Canadian Superstore/Village Green Family Dentistry&A.B. LUCAS SECONDARY SCHOOL	Viking Robotics	London	2018
6975	Neil McNeil High School	Neil McNeil Maroonotics	Scarborough	2018
6978	Niagara Robotics/Jordan Engineering/Telestream/Vykan Inc./Make It Metal/Woodbridge Foundation/Enbridge Gas/General Motors&Family/Community	QuickStrike Niagara	Saint Catharines	2018
6987	Make Stuff Move/Omni Evolutions/Geo. T. White/BTW IT Services & Electronic Parts/Trillium Lakelands District School Board&Fenelon Falls Secondary School	Falcon Automation	Fenelon Falls	2018
7200	FIRST Canada&Banting Memorial High School	Banting Memorial High School	Alliston	2018
7476	Marvell/NRC Teleresources/Dentons/Rotary Club of Kanata/Palladium Insurance/Posit/Metal Pros/Sticker Giant&Earl of March Secondary School	Aureus	Kanata	2019
7480	2019 Argosy Foundation FRC Rookie Grant/Novelis Inc./FIRST Canada/Retired Teachers of Ontario/Electro-meters/iStorm/QFRC/Server Cloud&Family/Community	Machine Mavericks	Kingston	2019
7757	Hobart Owen Sound/Hydrogen Optimized/Bruce Power/Common Grounds Café/Bruce-Grey Catholic District School Board&St. Mary's High School	Atomic Dishwashers	Owen Sound	2019
8089	Vigor Clean Tech/Keeping It Simple/Engenuity Corporation/Northern Digital Inc. /Rockway Mennonite Collegiate&Rockway Mennonite Collegiate	Rockway Robotics	Kitchener	2020
8349	FIRST Canada Rookie Grant/New Team Growth Grant/NewMakelt/Tech-Pre/Magna International/SicoSoft Consulting&Newbotics Community Robotics	Newbotics	Newmarket	2020

Team Number	Team School/Organization	Nickname	City	Rookie Year
Canada— Newmarket District Event - Cont				
8729	Leonardo DRS/Bell Mobility/intact Insurance/Ross Video/Kirality Drones/Jaimac Risk Management/Solidworks/Argosy Foundation/National Research Council Canada & Family/Community & Spark Youth Robotics Club	Sparkling H2O	Kanata	2022
8764	Thornlea Secondary School/and Parents&Thornlea Secondary School	Thunder Robotics	Thornhill	2022
9062	Columbia International College/London North Rotary Club/Thomas Steele/Argosy Foundation/FRC 5406: Celt-X/Carbon Noir Customs/NorthPoint Powder Coating/Family & Friends&Columbia International College	Critical Circuits	Hamilton	2023
9098	FIRST Canada/HAAS/HATCH/Romag Contracting Ltd/Spartan Impressions/Brantford KIA/Optimist Club of Oakville/Schultz Manufacturing/Halton Catholic District School Board&St. Ignatius of Loyola Catholic Secondary School	FireHawks	Oakville	2023
9127	Marvell/NRC Teleresources/Dentons/Rotary Club of Kanata/Palladium Insurance/Posit/Metal Pros/Sticker Giant&Earl of March Secondary School	Lioneers	kanata	2023
9580	Georgian College of Applied Arts and Technologies	#ChangeTheNow	Barrie	2024

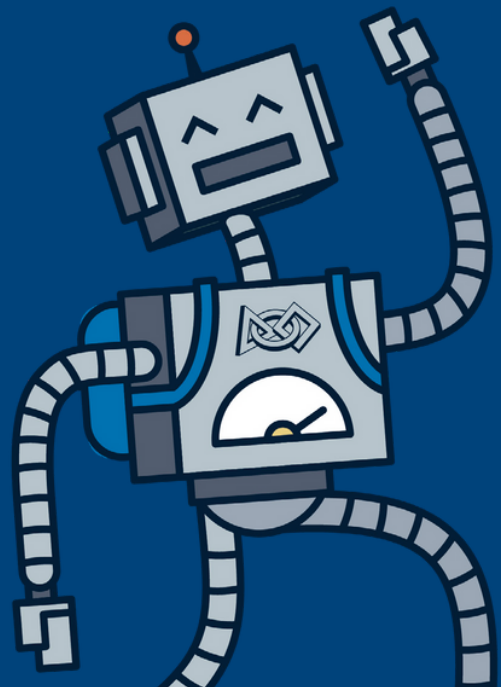
The 2024 *FIRST*® Championship starts April 17

Pack your bolts, bots, and bags!

FIRST® has put together exclusive FIRST Championship housing discounts so you and your team can have the time of your lives when you get there. When you book with FIRST, you will:

- Stay close to the venue and other teams
- Receive guaranteed low rates at FIRST-reviewed hotels
- Enjoy convenient, FIRST-only contracted amenities at most hotels including complimentary Wi-Fi, breakfast, and parking
- Gain flexibility to make booking adjustments and pay later
 - Get reservation protection and assistance before, during, and after your stay if any unexpected challenges occur

Book your hotel reservations today!
www.firstchampionship.org



2024 Ontario Newmarket District Event Schedule

Day 0 - March 8

2:30pm 4:30pm Team Load In (5 Team Reps)
4:30pm Pits Open, Inspections
5:30pm 8:00pm Filler Line Practice Matches
9:00pm Pits Close

Day 1 - March 9

8:00am Pits Open, Inspections
8:30am Drivers meeting
9:15am 10:45am Practice Matches
11:00am Opening Ceremonies
11:30am 1:30pm Qualification Matches
1:30pm 2:30pm Lunch
2:30pm 7:00pm* Qualification Matches
8:00pm Pits Close

Day 2 - March 10

8:00am Pits Open
9:00am 9:30am Opening Ceremonies
9:30am 12:45pm* Qualification Matches
1:00pm 1:30pm Alliance Selections
1:30pm 2:30pm Lunch
2:30pm 5:30pm Playoff Matches
5:30pm** 7:00pm Awards / Closing Ceremonies
7:30pm Pits Close

*Schedule subject to change. All times are estimated based on flow of rounds.
See Pit Administration table for updated times.



Dream big. With us.

And join our team.

You bring the next generation of innovative thinking. You want to work for an entire industry. You are ready to change the world. We have student opportunities from co-op placements, internships and apprentice programs. Imagine limitless opportunities with us.

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Join Our Talent
Community



Career
Opportunities



Judges

Led by Our Judge Advisor:

Milind Ghanekar

VP Account & VAR Management
Viasat

Aleksey Tsaplin

Founding Engineer
Frate Inc.

Andrew Rehkopf

Senior Program Manager
Alphawave Semi

Annabelle Lee

IT Security Specialist
IBM Canada Ltd.

Anshul Johari

SMTS Design Engineer
Advanced Micro Devices, Inc.

Ben Larouche

Mission Manager
Space Flight Laboratory
University of Toronto
Institute for Aerospace Studies

Brian Dorrepaal

Retired Physics Teacher

Dan Leiding

Technical Specialist; Analytical
Instrumentation
Lakeside Process Controls

Somil Nishar

Lead Automation Engineer
Quality Design Services, Inc

Derek Sharpe

Business Lead
Rockwell Automation, Inc.

Derrol Salmon

Director, Board of Directors
NewMakelt

Duncan Osler

Senior Accountant
Ernst & Young

Eric Borromeo

Senior Vice President, Credit,
Retention
Wells Fargo Bank, Canadian
Branch

Geoffrey Tiedemann

Ian Donaldson

Mechanical Engineer
Horstman Canada

Kevin Goodenough

Software System Designer
Advanced Micro Devices, Inc.

Kris Karas

Pharmacist
Skycare

Kristen Leroux

VP Canada Market
DXC Technology

Matthew Klincans

Spectrum Engineer
OneWeb

Maud Gorbet

Professor and Biomedical
Engineering Director
Department of Systems
Design Engineering,
University of Waterloo

Mohammad Elbalkiki

Senior Compiler
Verification Engineer
NVIDIA

Patsy Wong

Digital Solutions
Program Consultant
Canadian Institute for
Health Information

Renee Reil

Technical Writer
Brock Solutions

Rob Gorbet Associate

Professor, Department
of Knowledge
Integration University of
Waterloo

Sandra Weir

**Technical Sales
Specialist IBM**

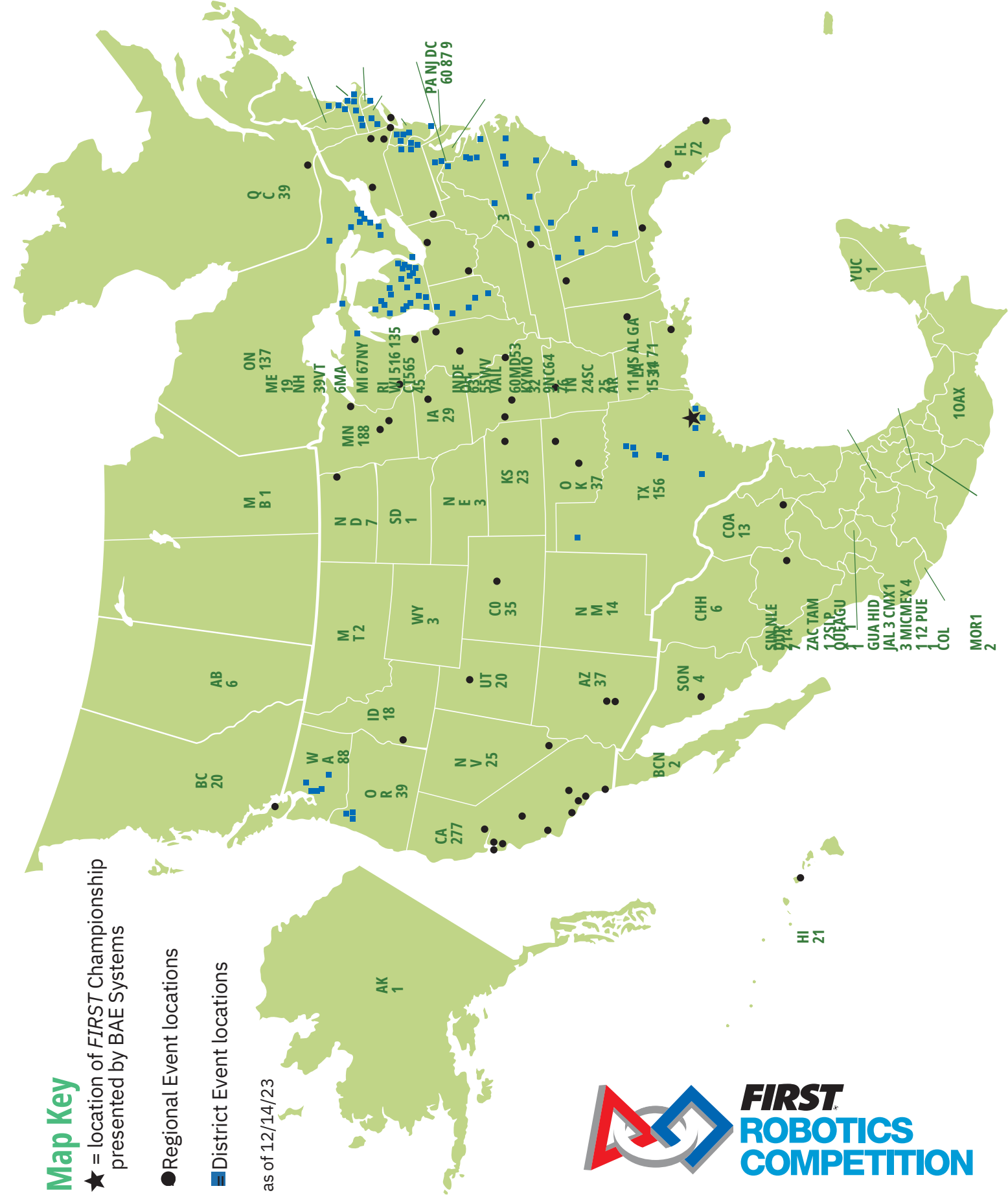
Somil Nishar

Lead Automation
Engineer
Quality Design
Services, Inc

Yerong Chen

Senior Member of
Technical Staff
Advanced Micro
Devices, Inc.

Zoia Shamrai



Get Involved!

Form a Team...

- ☐ Learn from engineering pros.
- ☐ Apply math and science concepts to design and build robots.
- ☐ Gain hands-on experience solving real-world problems.
- ☐ Learn about exciting science and technology careers.
- ☐ Make new friends.

Be a Volunteer...

- ☐ Become a mentor.
- ☐ Organize an event or program.
- ☐ Assist at a competition.
- ☐ Make a difference in young lives.

Contact: jaeleen.koscielski@firstroboticscanada.org

Become a Team or Regional Sponsor...

- ☐ Provide financial support, equipment, parts, facilities, internships, or other services.
- ☐ Offer scholarships.
- ☐ Encourage employees to mentor or volunteer.
- ☐ Host an event.
- ☐ Build community goodwill.
- ☐ Inspire employees.
- ☐ Help build a technical workforce.

Contact: arti.javeri@firstroboticscanada.org

Donate!



- ☐ Help ensure thousands of students have access to unique learning experiences.
- ☐ Support the next generation of technological innovators and problem solvers.
- ☐ Scan this code with your smartphone to launch our secure online donation page on your browser.



Thank you for your generosity!

ALUMNI



Participants and alumni of *FIRST* programs gain access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the *FIRST* community for life.

firstroboticscanada.org/get-involved/alumni/



I remember reading "*FIRST* is more than robots" on the website as I registered for my robotics team. Being new to *FIRST*, I did not understand the meaning behind it. Now 7 years later, as a *FIRST* Alumni, this phrase defines my journey. For myself, *FIRST* is about community. I have made long-lasting friendships and acquired many skills that make me the leader I am today. As an alum, I'm able to witness just how far the *FIRST* community extends, and network you gain access to. There is this automatic bond when you know someone who has also gone through the *FIRST* program. My time as a *FIRST* participant helped reinforce my values and inspired me to pursue a career in Engineering at the University of Waterloo.



MEHAK DHALIWAL

FIRST Canada Youth Council Alum
Systems Design Engineering student at the University of Waterloo

FIRST Volunteers Inspiring the Future Since 1992

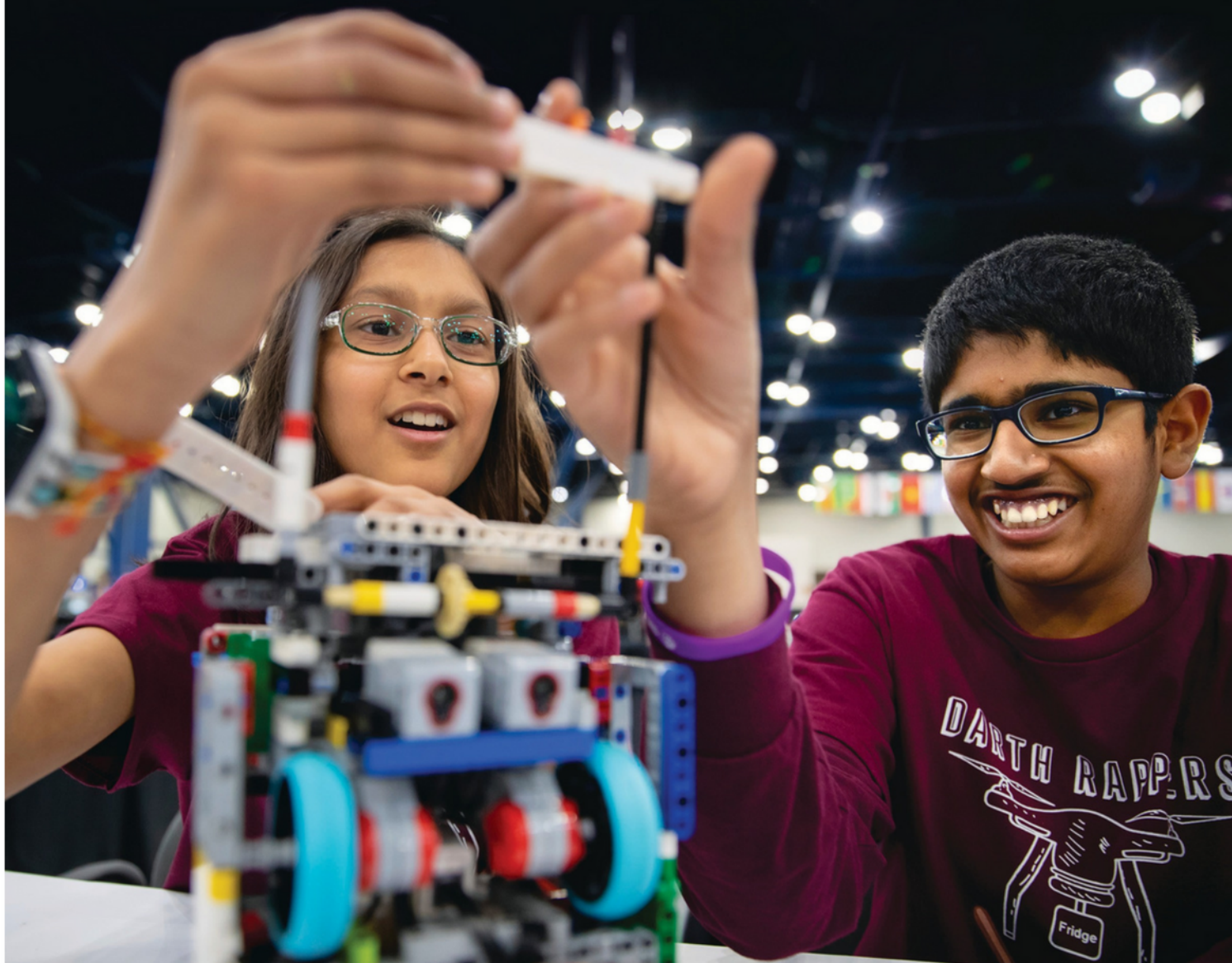
The Newmarket Complex District Event relies on dedicated volunteers and appreciates the contribution of time from everyone who participates. From the expertise of veteran volunteers who return year after year, to the enthusiasm of first-timers, volunteers are the critical component that make our events successful. A special thank you to the members of the Newmarket Complex District Event planning committee, who work tirelessly to plan this event each year.





We are not using kids to
build robots. We are using
robots to build kids.

— Dean Kamen, Founder, FIRST®



Help FIRST® Canada provide unique, hands-on STEM learning experiences to millions of students!

www.firstroboticscanada.org/donate

Your contribution is appreciated. Thanks for joining FIRST Canada as we create a culture that celebrates science and technology!



FIRST®— A Suite of Hands-On, STEM Learning Programs

FIRST
CANADA

FIRST® is the world's leading youth-serving nonprofit advancing STEM education. For over 30 years, students from all walks of life have developed self-confidence in STEM and valuable, real-world skills through FIRST that open pathways to a better future.

Through a suite of team-based robotics challenges and backed by a global network of mentors, coaches, volunteers, alumni, and sponsors, FIRST helps young people discover a passion for STEM and develop the skills they'll need to succeed in today's competitive workforce.

Children can start their journey with FIRST® LEGO® League and progress through FIRST® Tech Challenge and FIRST® Robotics Competition, or join any of our three programs based on age or grade level.

GRADES PREK-8 · AGES 4-16*



Young Innovators Use Skills and Imagination to Solve Problems as a Team

FIRST LEGO League introduces STEM to children through fun, exciting hands-on learning. Participants gain real-world problem-solving experiences through a guided, global robotics program, helping today's students and teachers build a better future together. FIRST LEGO League's three age-appropriate divisions inspire youth to experiment and grow their critical thinking, coding, and design skills through hands-on STEM learning and robotics.

*Ages vary by country

GRADES 7-12 · AGES 12-18



It's Way More Than Building Robots

FIRST Tech Challenge students learn to think like engineers. Teams design, build, and program robots to compete in an alliance format against other teams. Robots are built from a reusable platform, powered by Android technology, and can be coded using a variety of levels of Java-based programming. Participants and alumni have access to career discovery opportunities, networking, and the FIRST Scholarship Program.

GRADES 9-12 · AGES 14-18



An Exciting Sport Built Around the World of STEM

FIRST Robotics Competition teams design, program, and build a robot starting with a standard kit of parts and common set of rules to play in a themed head-to-head challenge. Teams also build a brand, develop community partnerships for support, and work to promote STEM in their local community.

Participants and alumni have access to career discovery opportunities, networking, and the FIRST Scholarship Program.

At the heart of FIRST are its Core Values, which emphasize the contributions of others, friendly sportsmanship, teamwork, learning, and community involvement. These include Gracious Professionalism® (respect for others, being a good sport, and sharing what you learn) and Coopertition® (competing hard but also helping the other teams).

Learn more about FIRST and our suite of hands-on programs at firstroboticscanada.org

We'd like to thank our Sponsors and Partners for their commitment to the vision of **FIRST®** and who continue to help **FIRST®** grow!

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<https://www.firstroboticscanada.org/>

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