

Program Information
April 3-6, 2024



ONTARIO PROVINCIAL
CHAMPIONSHIP



Event Sponsor
VISIT
MISSISSAUGA
A CULTURAL CANVAS

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 *CRESCENDO*™ presented by Haas, part of the 2023-2024 cross-program season, *FIRST*® IN SHOW™ 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.

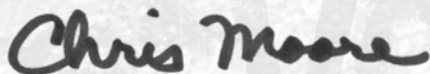
The boundaries of what's possible are stretched and reshaped by your collective imagination and resilience, and we can't wait to see the wonders you'll create.

With that said – Lights, Camera, STEAM!

Sincerely,



Dean Kamen, *FIRST* Founder



Chris Moore, *FIRST* CEO



Dean Kamen



Chris Moore

Welcome to the 2024 FIRST Ontario Provincial Championship Event



Joe Horneck
Acting Mayor
Councillor, Ward 6
City of Mississauga

February 20, 2024

Re: 2024 FIRST Robotics Provincial Championships

Dear Competitors, Families and Friends –

As Acting Mayor of the City of Mississauga, I would like to welcome participants of the 2024 FIRST Robotics Provincial Championships and wish them well as they begin this exciting journey.

For those who are new to Mississauga, my colleagues on Council and I warmly welcome you. We hope you have a great time exploring the City and discovering all it has to offer. We are proud to host this year's competition in our beautiful city, a place that is full of innovation, opportunity and a wide variety of skillsets. We are very proud of our community, which is unlike any other city in Ontario. We are home to thousands of thriving businesses that span all sectors which create opportunities for all who choose to live, work, play and learn in Mississauga.

Our city boasts opportunities to further your education and skillset through our post-secondary institutions - the University of Toronto Mississauga and Sheridan College. Both schools offer undergraduate and graduate programs in exciting and emerging fields such as life sciences, engineering, advanced manufacturing, business and public service.

I'd like to thank the event organizers, volunteers, industry partners and alumni from FIRST Robotics Canada for dedicating their time and talent towards helping these students discover the limitless possibilities that studying, exploring and embracing science, technology and engineering offers. The hard work these students have put into preparing for this weekend's competition is commendable and will help guide them in their future, meaningful careers. The continued mentorship of these students through programs like these is a wonderful testament to the tireless dedication of their educators and families.

I am thrilled to extend my best wishes to all the attendees and participants of the 2024 FIRST Robotics Provincial Championships. Best of luck to all those competing and have a great weekend in Mississauga.

Warm regards,

A handwritten signature in black ink that reads "Joe Horneck".

Joe Horneck

Acting Mayor of Mississauga
& Councillor, Ward 6



Mississauga, Ontario, Canada
VisitMississauga.ca



Hello First Robotics 2024 participants!

Welcome to Mississauga! Congratulations on your participation in the First Robotics 2024 Provincial Championship Competition. We're thrilled to host you for this special event here in Mississauga. And this year is a special year, because it also is Mississauga's 50th anniversary. To make the most of your visit, please explore our city and make yourself at home. To get your adventures started, here are a few of my favourite things to do in Mississauga:

1. **Taste the World:** Explore Mississauga's diverse culinary scene with over 1,800 restaurants representing 150 countries. Find your favourite cuisine at visitmississauga.ca or ask our Visit Mississauga staff for personalized suggestions.
2. **Go Back in Time:** Join the 50th Anniversary History Hunt by Museums of Mississauga, discovering 50 hidden artifacts around the city, each with its own unique story. Or check out the full story of our City's 50 year history online at www.mississauga.ca/50
3. **Shop with a side of Fun & Games:** Indulge in retail therapy at [Square One Shopping Centre](#), Ontario's largest mall with over 350 stores and restaurants. Don't forget to check out [The Food District](#) for a variety of exclusive dining options and games at [The Rec Room](#). If you are looking to catch the latest blockbuster movie and have some fun you have to visit [Cineplex Junxion](#) at Erin Mills Town Centre.
4. **Stroll by Lake:** Enjoy the beauty of Lake Ontario's southernmost area, or walk along the credit river in Port Credit. With a number of beachfront parks along the lake a trip to Jack Darling Park, J.C Saddington or Lakeview Promenade are must-do list while in town!
5. **Indoor Adventures:** For a fast-paced experience, try [K1 Speed Indoor Go-Karting](#) or take your visit to new heights at [Hub Climbing](#), offering Canada's largest indoor rock climbing adventures for all skill levels. And seeing as robotics are your thing, be sure to book your tickets to see [Jurassic World: The Exhibition](#) to see the world's largest and realest animatronic dinosaurs come to life!

These activities showcase Mississauga's vibrancy and diverse offerings. Wishing you success in the competition, and we hope you create lasting memories during your stay in Mississauga.

Sincerely,

Victoria Clarke
 CEO, Tourism Mississauga





COMPETITION SCHEDULE

03
WED

2:00 PM Team Load In
4:00 PM Doors, Pit, Practice Field and Machine Shop Open
8:45 PM Practice Field and Machine Shop Close
9:00 PM Doors and Pits Close

04
THU

8:00 AM Doors, Pit, Practice Field and Machine Shop Open
9:00 AM Qualification Matches Begin
12:30 PM Lunch
1:30 PM Qualification Matches
7:15 PM Practice Field and Machine Shop Close
7:30 PM Doors and Pits Close

05
FRI

8:00 AM Doors, Pit, Practice Field and Machine Shop Open
8:30 AM Opening Ceremony
9:00 AM Qualification Matches
12:30 PM Lunch
1:30 PM Qualification Matches
4:30 PM Awards & Closing Ceremony
7:15 PM Practice Field and Machine Shop Close
7:30 PM Doors and Pits Close

06
SAT

7:30 AM Doors, Pit, Practice Field and Machine Shop Open
8:00 AM Opening Ceremony
8:30 AM Alliance Selection
9:00 AM Break
10:00 AM Divisional Playoffs
1:00 PM Practice Field and Machine Shop Closes
1:30 PM Lunch
3:00 PM Finale
6:00 PM Pits Close/ Door Close
6:00 PM Championship Meeting



04 APRIL

THURSDAY

FIELD TRIPS 9:00 AM - 3:00 PM
School Field Trips



9:00 AM - 4:00 PM
Try a Tech and Trade
Location: Pits



9:00 AM - 4:00 PM
Meet *FIRST* LEGO League Teams
Location: Innovation Alley



Meet *FIRST* Tech Challenge Teams
Location: Innovation Alley



Visit the *FIRST* Canada Education booth
Location: Innovation Alley



Visit our Post Secondary Partners and learn about scholarships and more!
Location: Innovation Alley

**INVITED GUEST
RECEPTION**

3:00 PM - 4:00 PM
Woodie Flowers, Dean's List, and Scholarship Winner Reception
Location: Aviation B Room



5:30 pm - 6:30 pm
Alumni Celebration
Location: Social Zone



05 APRIL

FRIDAY



9:00 AM - 11:30 AM

Skilled for the Future
Education Forum

Location: Aviation B



9:00 AM - 4:00 PM

Try a Tech and Trade

Location: Pits



Meet *FIRST* LEGO League Teams

Location: Innovation Alley



Meet *FIRST* Tech Challenge Teams

Location: Innovation Alley



FIRST Canada Education Booth

Location: Innovation Alley



FIRST Alumni Alley

Location: Innovation Alley



Visit our Post Secondary Partners and learn about scholarships and more!

Location: Innovation Alley



12:30 pm - 4:00 pm

Special Invited Guest Lounge and Tours

Location: Aviation B



06 APRIL
SATURDAY

8:30 AM - 9:00 AM
Alliance Selection

Location: Division Fields

10:00 AM - 1:30 PM
Division Playoffs

Location: Division Fields



Location: Innovation Alley

2:30 PM - 4:30 PM
FIRST LEGO League Explore Festival

3:00 PM - 5:30 PM
Finale

Location: Main Field

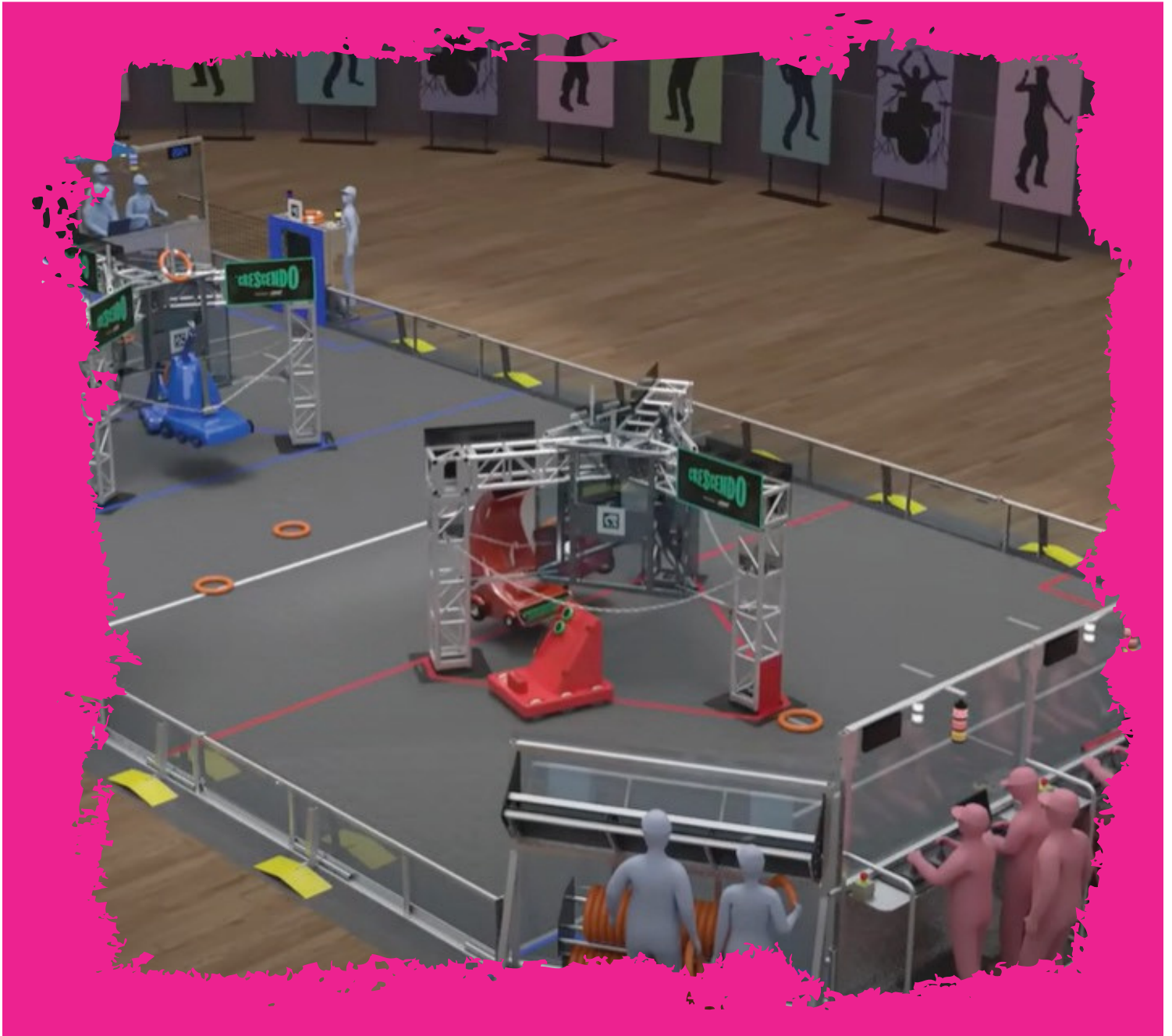
5:30 PM
Closing Ceremonies
Awards

Location: Main Stage

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



Scan to View Animation





THE EXHIBITION
PRODUCED BY NEON

MEET A BABY DINOSAUR!

JurassicWorldExhibition.ca

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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.

We'll create the future of mobility, together.

Forward. For all.

magnacareers.com



Join Our Talent
Community



Career
Opportunities

#MagnaNextGen



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

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

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 
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 



HATCH



Inspire innovation and help young people build a better future

We are proud to support FIRST Robotics Canada as they inspire young people to become science and technology leaders and innovators.

Learn more at hatch.com



Embrace the power of collaboration and determination!

Coming together to advance energy solutions.

Together, let's turn vision into action and transform the world around us.

Learn more at enbridgegas.com/sustainability

 **ENBRIDGE**
Life Takes Energy®



**FUTURE
SKILLED**



4-5 APRIL

9:00 am - 4:00 pm

Our partners and industry experts engaged with & inspired thousands of secondary students to explore a career in skilled trades. Discover the 'Try a Tech and Trade Booths in the pits, or explore their exhibit in the Innovation Alley to learn about exciting post-secondary options.

Discover the fascinating world of HVAC systems and electricals at this booth! Gain insight into the mechanics behind climate control and electrical engineering that power our modern world. Explore hands-on demonstrations and unlock the secrets of these essential technologies.

Location: Try a Tech and Trade Booth in the Pits

Location: Innovation Alley



Explore the artistry of manufacturing at our booth, where you'll delve into the precision of CNC machines, use a drill press, and handle a saw! Experience the exhilaration of shaping raw materials into intricate creations using cutting-edge technology.

Location: Try a Tech and Trade Booth in the Pits



Whether you are seeking to embark on a new academic journey or explore career pathways, our booth offers valuable insights and resources to help you shape your future success. Don't miss the opportunity to connect with us and discover the myriad of opportunities awaiting you at Durham College

Location: Innovation Alley



Challenge your plunger skills. The first one that sets the sensor off wins the game. Incorporated into this game are also electrical controls. Learn about the Electrical trade and discuss how the control system works.

Location: Try a Tech and Trade Booth in the Pits

Location: Innovation Alley



HUMBER

Visit each "Try a Tech and Trade" booth in the pits and upon trying each experience, qualify for entry into a prize draw.



**FUTURE
SKILLED**



4-5 APRIL
9:00 am - 4:00 pm

Our partners and industry experts engaged with & inspired thousands of secondary students to explore a career in skilled trades. Discover the 'Try a Tech and Trade Booth' in the pits, or explore their exhibit in the Innovation Alley to learn about exciting post-secondary options.

Learn more about McMaster University's 4 Faculty of Engineering programs including the Bachelor of Technology, Computer Science, Engineering, and Integrated Biomedical Engineering & Health Sciences program. With Ontario's 2nd largest co-op program, over \$1 million in scholarships (including those exclusive to *FIRST* participants), and over 70 Mac Eng specific clubs and teams, you define your experiences and we'll help you get there

Location: Innovation Alley



Come discover the Nipissing University Booth! Explore opportunities from cutting-edge programs to exclusive scholarships for *FIRST* students. Don't miss this chance to delve into a world of academic excellence and unlock your potential for success

Location: Innovation Alley



Embark on a captivating exploration of welding at our booth, where you can immerse yourself in the art of joining metals. Step into the virtual world of welding to experience the thrill and technique of fusing materials together with precision and finesse

Location: Try a Tech and Trade Booth in the Pits



Western Engineering doesn't just offer education; it opens doors to a realm where innovation intersects with technology, and aspirations become tangible. With top-notch facilities and a renowned faculty at the forefront of their disciplines, students are encouraged to challenge norms and reshape the future. Come be a part of our community, where our advanced engineering programs pave the way for a boundless future limited only by your creativity.

Location: Innovation Alley



Visit each "Try a Tech and Trade" booth in the pits and upon trying each experience, qualify for entry into a prize draw.

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

**SAY IT LOUD AND PROUD...
I'M PART OF THIS
INNOVATIVE
CROWD**

Good luck to all participating teams in the
2024 FIRST® Robotics Competition, Crescendo™



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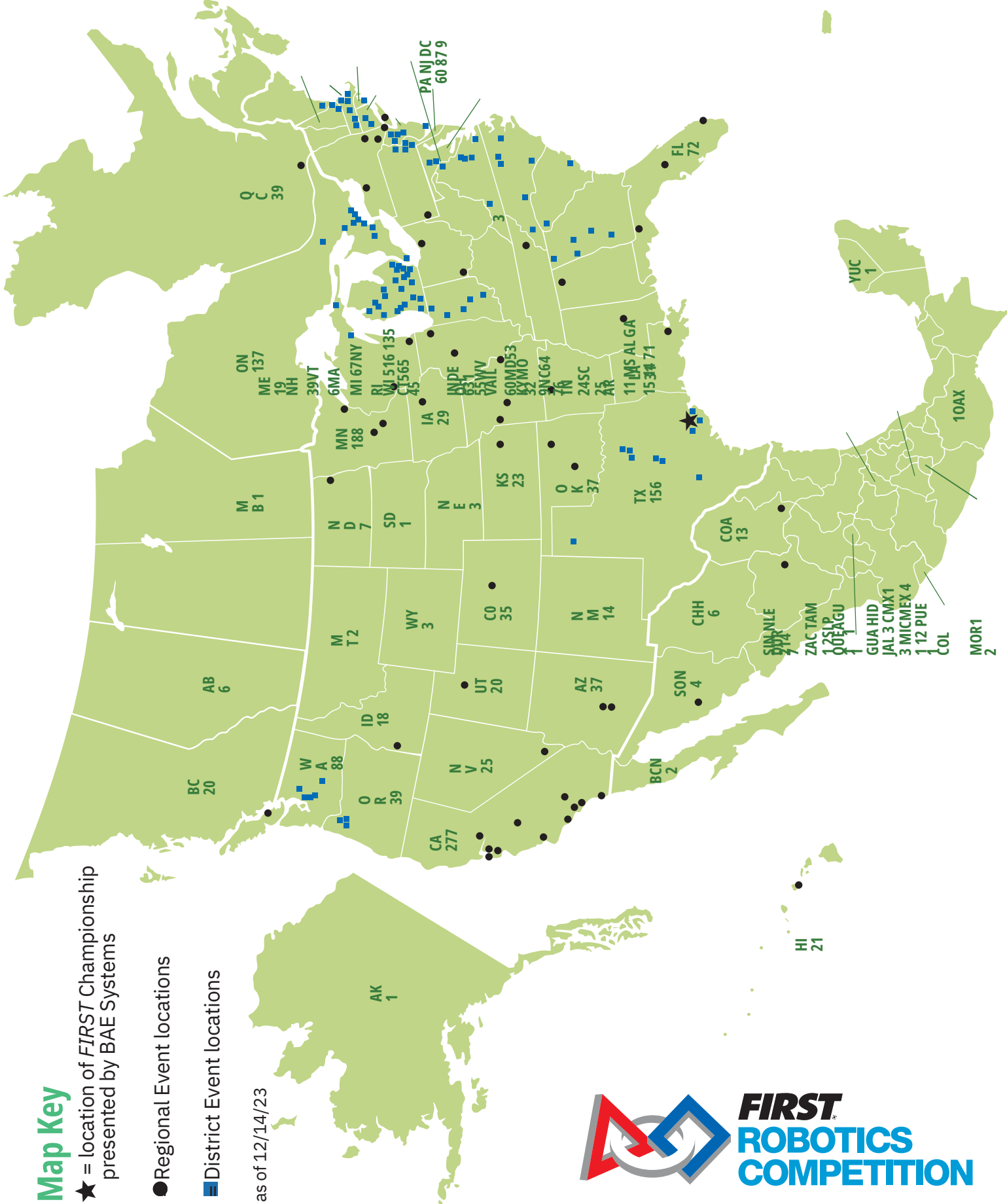
Map Key

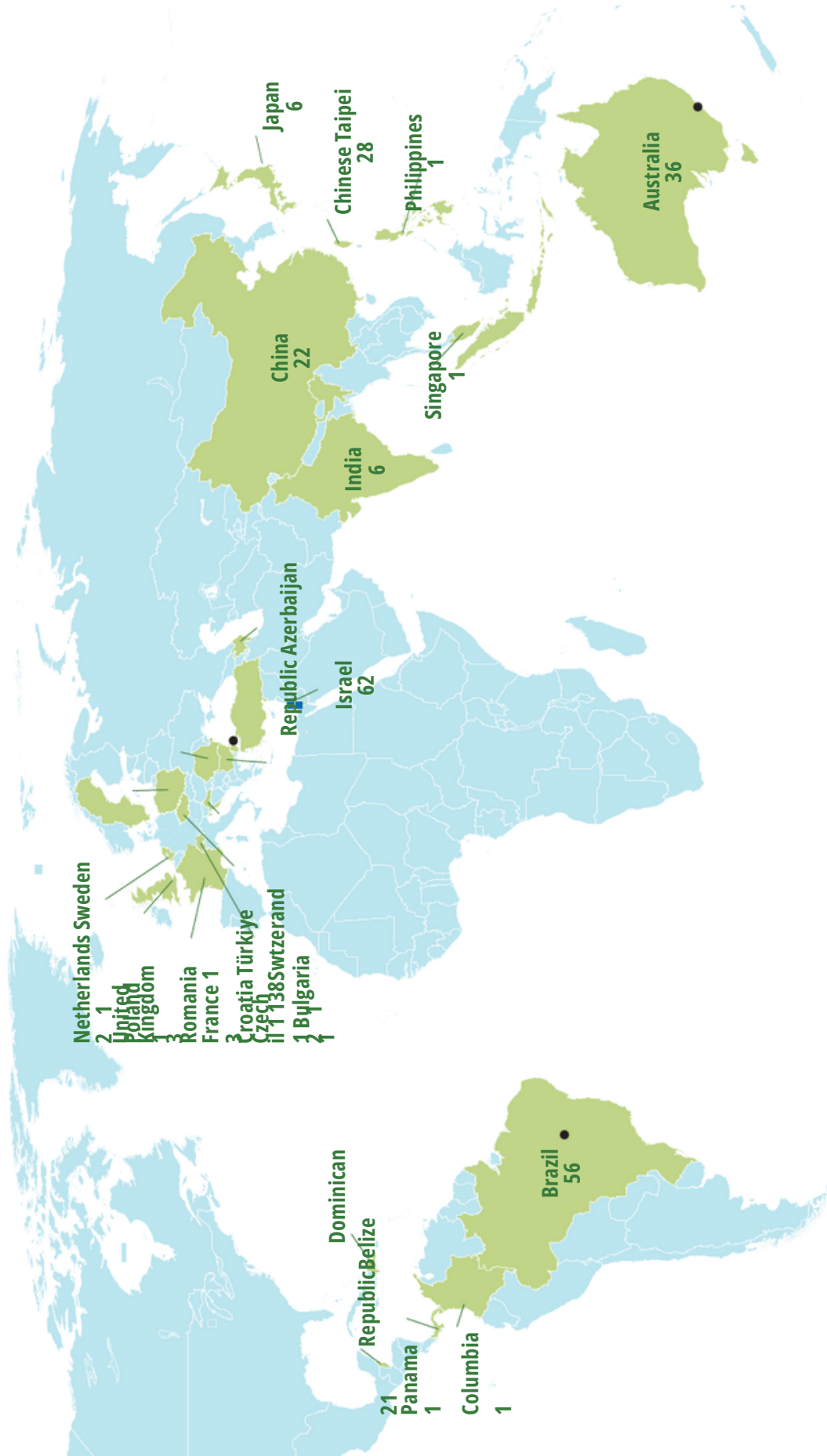
★ = location of FIRST Championship presented by BAE Systems

● Regional Event locations

■ District Event locations

as of 12/14/23





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.
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- Scan this code with your smartphone to launch our secure online donation page on your browser.



Thank you for your generosity!

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Stryker Canada

Yonglin Wang

Software Developer
IBM Canada



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 Windsor/Essex/Great Lakes 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 Windsor/Essex/Great Lakes District Event planning committee, who work tirelessly to plan this event each year.





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

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 Cooperitition® (competing hard but also helping the other teams).

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

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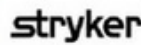


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