



Ways to Inspire Conference

October 1, 2022

Orchard Park Secondary School

200 Dewitt Rd, Stoney Creek

L8E 4M5 [map](#)

[Registration online](#)

Doors open at 8:30am (Coffee, Tea & Hot Chocolate)

Sessions begin at 9:00 am and end at 3:00 pm

Open house from 12:20-1:30

Opportunity to see robots and talk with teachers and mentors who use them

Pizza and Salad Lunch - Minimum \$2.00 Donation Please

Come if you are a(n):

Elementary or Secondary Student

Elementary or Secondary Teacher

Team member or Alumni

Mentor or Parent

Volunteer or Administrator

Experienced, Rookie or Pre-rookie

Learn about:

Lego - FLL

VEX IQ

VEXPRO

FRC

FTC

Curriculum

Clubs

Teams

Events

Strategy

Design

Mechanical

Electrical

Programming

Team Management

Equity & Diversity

Business



After 8:30

Registration and Welcome - Cafeteria

9:00 AM	Getting Robotics going again in HWDSB Hunter 2056	Opportunities in FIRST Vanshika Bhatia 2056	Rapid Prototype to Win - How to Make Better Robot Parts Faster Brendan Simons 5406
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10 minute Break

10:10 AM	Elementary STEM Showcase Enzo Ciardelli HWDSB	Ontario as a Team! William Neal FIRST CA	Designing a Tablet Scouting System Pinto & Christian 5406	Making the Perfect Pick Manoharan, Moe 2056
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10 minute Break

11:20 AM	Upgrading from EV3 to Spike Prime for FLL Derek Murphy Studica	Effective Rookie Strategies Thomas Steele 3739...	How to make the most of your FRC experience Emily Forster 2056	Data Visualization Michael Martin	2056 ways to Maximize Your On Field Performance (abbreviated) Tyler Holtzman 2056
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12:20 AM

70 min Lunch, & Open House

1:30 AM	Starting an FTC Team Hunter 2056	Introduction to Autonomous Path Following Pinto, Christian,Kayla 5406	2056 ways to Maximize Your On Field Performance Tyler Holtzman 2056
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3:00 PM

Clean up and Departure

- Team Management
- Electrical
- Mechanical Design
- Programming
- Awards
- Elementary Robotics
- Strategy
- 2056 Related
- Other

Select three 60 minute sessions for the morning and one 90 minute session for the afternoon.

[Registration Link](#)

Upgrading from EV3 to Spike Prime for FLL Derek Murphy Studica	We break down the benefits of the newest LEGO SPIKE PRIME system and highlight our top 10 reasons why your FIRST LEGO LEAGUE team needs to switch from EV3
Elementary STEM Showcase Enzo Ciardelli HWDSB	We start with a discussion on Elementary robotics during the pandemic school year. Also we provide an opportunity to interact with Microbits and Snapcircuits following the new Ontario Science Curriculum.
Getting Robotics going again in HWDSB Elementary Schools Stan Hunter 2056	This session will review the details of starting and running a VEX IQ Robotics club at the elementary level. Funding opportunities, kits and support.
How to make the most of your FRC experience? Emily Forster 2056 Alumni	FRC Teams are about building more than robots - they're about building people, but what does that REALLY mean? In this presentation, Team 2056 Alumni, Emily Forster, will discuss her 4 years on the team to inspire others to make the most of their own experience
Ontario as a Team! William Neal FIRST Canada	How may we encourage teams throughout the entire Province to support each other even more??
Opportunities in FIRST Vanshika Bhatia 2056 Alumni	What students and parents can do to be a part of FIRST both on and off their teams. Including advice for parents and students to feel more involved within their team.
Effective Rookie Strategies Thomas Steele 3739, 4617, 5036, 5406, 6135, 9024	This presentation and round table discussion is aimed at supporting teams going into the 2022-23 season, primarily rookie teams. We will be going over team organization, goal setting, performance indicators and more.
Starting an FTC Team Stan Hunter 2056	A road map for starting an FTC team and/or introducing the FTC platform in your class
2056 ways to maximize your on field performance Tyler Holtzman 2056	A review of our design and decision making, and build process throughout an FRC Season
Rapid Prototype to Win - How to Make Better Robot Parts Faster Brendan Simons 5406	An introduction to rapid prototyping techniques used by 5406 and other teams to quickly test ideas, iterate designs, and verify geometry before building robot mechanisms
Introduction to Autonomous Path Following	Write and test simple one and two path autonomous routines, in Java, using waypoints and sensor feedback on a provided robot base (tank drive). We will discuss device configurations, odometry, characterization, and write two simple autonomous drive routines. Please bring a

Pinto, Christian & Kayla 5406	laptop with WPILib-suite preinstalled and configured for Java. Pre-installed vendor libraries for Rev Robotics, CTRE (Phoenix Framework), and Kauai Labs (NavX-MXP) would be beneficial
Designing a Tablet Scouting System Chris Pinto & Christian 5406	Celt-X has been using tablet scouting with Bluetooth data transfer and cellular upload for a few seasons. We will discuss some technical aspects of the system architecture, design choices, and show some use cases, with the goal of providing ideas for other teams interested in developing their own systems.
Data Visualization Michael Martin	How to make numbers meaningful with context and visualization techniques.
Making the Perfect Pick Shankar Manoharan & Oliver Mao 2056	Making the Perfect FRC Pick.

***Note: There are 60 minute sessions in the morning and
90 minute sessions in the afternoon***

[Complete the Registration Form Here](#)