

Ways to Inspire Conference

September 28th, 2024

Orchard Park Secondary School 200 Dewitt Rd, Stoney Creek L8E 4M5 map Doors Open at 8:30 am
Sessions begin at 9:00 am and end at 3:00 pm

Lunch will be held 12:20 pm - 1:30 pm
Community BBQ, Robot Demos, and *EXCLUSIVE* 2056 Merch for Sale

REGISTER HERE!

BBQ Bundle (burger/hotdog, drink, & chips) - \$10 (Vegetarian options available)

Payment Accepted: Debit, Credit, or Cash

Learn about:

- FRC
- FTC
- Strategy
- Design
- Mechanical
- Electrical
- Programming
- Team Management
- Equity & Diversity
- Elementary Robotics



Presentations for:

- Student/Team Member
- Alumni
- Mentor
- Parent
- Rookie Teams
- Veteran Teams

8:30 AM	8:30AM - 9:00AM: Registration and Welcome						
	The Celt-X Superpit, design, experience and lessons learned	Strategies for Fostering Equity, Diversity, and Inclusivity in a FIRST Team	Strategy 101	The Importance of RF Communication in Robotics	2056 Ways to Code	SESSION 1: 60 MIN	
	Brendan Simons 5406	Edmund Kim 5719	Nathan & Nikhita 3683	Michael J Martin	Eric & Tyler 2056		
10:00 AM	0 AM 10:00AM - 10:10AM: 10 min Break						
	How to Make the Most of your FRC Experience?	FTC SIM: Web Based Coding Simulator	Evaluating team resources	How to Scout an FRC Event	Maximizing your On-Field Performance	SESSION 2: 60 MIN	
	Emily Forster 2056	Lisa Ramraj	Al Douglas 4903	Hassan & Caleb 2056	Tyler Holtzman 2056		
11:10 AM			11:10AM - 11:20AM: 10 min Break				
11:20 AM	Volunteering in FIRST	Teaching Gifted Students Math through Programming	Mastering Drive Coaching in FRC: Training, Strategy, and Avoiding Pitfalls	From Pit to Public: How to Manage External and Internal Relations	2024 Robot demo and Q&A	SESSION 3: 60 MIN	
	FIRST Canada Youth Council	Enzo Ciardelli	Rishi & Shahroze 1241	Alice & Craig 3161	Balraj, Irush, Stephan, Chayanth 2056		
12:20 PM	12:20PM - 1:30PM: 70 min BBQ Lunch, Open House, and *EXCLUSIVE* 2056 Merch for Sale						
	Parent panel, what to expect as a robotics parents.	FIRST Robotics Competition Simulator	FRC Team Best Practices	Punching Above Your Weight: Using Strategy to Maximize on Field Performance	FRC Design in the Modern Era	SESSION 4: 90 MIN	
	Jeff Beattie	William Neal	Thomas Steele 5406,9062	Brennan & Taegen 4476	Tyler Holtzman 2056		
3:00 PM						=	

2056 Related
Mechanical Design
Programming
Strategy/Scouting
Team Management
Awards
Elementary Robotics
Other

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

Registration Link

Maximizing your On-Field Performance	A look inside the competition season of team 2056. Our processes, tips, and tricks.
maximizing your on-ried renormance	A look inside the competition season of team 2000. Our processes, ups, and theks.
Tyler Holtzman 2056	
2024 Robot demo and Q&A	A showcase and demonstration of OP's 2024 robot Low-Key and Q&A for the past 3 robots
Balraj, Irush, Stephan, Chayanth 2056	
FRC Design in the Modern Era	A look at how design in FRC has changed in the last 5 years and how teams can best adapt to the modern era
Tyler Holtzman 2056	
The Celt-X Superpit, design, experience and lessons learned	After years of planning and fundraising, Celt-X built "Superpit" road cases in the summer of 2023. We will present the design
	and lessons learned after a year of using these cases at home and at competition.
Brendan Simons 5406	
2056 Ways to Code	Join FIRST Robotics Team 2056 as we share some best programming practices, including effective planning with state machines, organizing subsystems with multi-file programming, and optimizing robot controls for an improved driver experience.
	We'll also cover autonomous strategies, focusing on balancing consistency and accuracy, and share insights into using
	Limelight for vision processing. Perfect for teams looking to enhance their programming skills and robot performance.
Fig. Marra 0 T des National 2050	
Eric Morse & Tyler Holtzman 2056 FTC SIM: Web Based Coding Simulator	FTC SIM is a virtual coding tool for FTC Blocks and OnBot Java programming. It allows users to code and run a virtual FIRST
1 TO Olin. Web Based County Officiator	Tech Challenge robot autonomously for free! Users can learn everything from basic movement to how to use sensors by
	completing a series of puzzles using Blocks or Java. It has embedded tutorials, monthly challenges, a multi player option, world builder capabilities, a teacher's portal and the last three FTC game fields! You can use it to teach programing in a classroom,
	train rookie FTC team members and introduce coding to your community via workshops/camps.
Lisa Ramraj	
FIRST Robotics Competition Simulator	We present a means of simulating FRC robots in a 3D environment with a realistic implementation of tank, swerve, robot physics, time trials, import from CAD and much more! Allow the drivers and coders to work all season alongside the CAD team
	and build team!
William Neal	
How to Scout an FRC Event	In this session with 2056 Strategy and Scouting mentors, we will explore how to make the most of the data that you collect at
	an FRC event.
Hassan & Caleb 2056	
Mastering Drive Coaching in FRC: Training, Strategy, and Avoiding Pitfalls	In this session, we will explore the essentials of effective drive coaching in FRC. Learn how to train and develop a cohesive
Fittalis	drive team, build a robust strategy-to-match-play pipeline, and avoid common mistakes that can derail your season. Whether you're a seasoned coach or new to the role, this presentation will provide valuable insights and actionable tips to help your
Disk! 0 Ohahara 4044	team succeed on the field This concise description highlights the key topics and sets the tone for an informative and practical session.
Rishi & Shahroze 1241 Strategy 101	Strategy and what is it, the in and outs of the behind the scenes of every good match. We will look at how to make your robot
on alogy 101	excel and turn your matches of three like your playing as one
Nathan & Nikhita 3683	
Punching Above Your Weight: Using Strategy to Maximize on Field	In this talk, we're going to cover how to incorporate strategy from kickoff day to Einstein. This includes topics such as designing
Performance	strategically from day one, integrating your scouting and strategy sub teams at an event, and getting into the details of efficient match planning and focusing how to actually win a match, even when it's stacked against you.
Brennan & Taegen 4476	
FRC Team Best Practices	We'll be going over a variety of topics in FRC, including team organization, safety, and modular design. This is for both
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	technical and non-technical audiences interested in leveling up their FRC team. We will be discussing and demonstrating the popular wiring and bumper securement methods with a robot built by rookie students on Team 9062.		
Thomas Steele 5406,9062			
Evaluating team resources	How to better evaluate your team's resources to be able to build the best robot to achieve your team's goals this year. Learn from 4903's successes and failures (mostly from our failures!) on how to gauge what resources your team has available going into build season. Participate in an interactive, theoretical robot build game where trade-off and difficult decisions based on your resources need to be made. Ideal for rookie and young teams.		
Al Douglas 4903			
Strategies for Fostering Equity, Diversity, and Inclusivity in a FIRST Team	This workshop provides researched information and engaging, practical activities, usable immediately. The workshop aims to foster discussions about equity, diversity, and inclusivity in FIRST teams.		
Edmund Kim 5719			
How to Make the Most of your FRC Experience?	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.		
Emily Forster 2056			
From Pit to Public: How to Manage External and Internal Relations	This presentation will cover topics related to social media engagement, networking and community interactions, documentation, internal communications, and outreach.		
Alice & Craig 3161			
Teaching Gifted Students Math through Programming	This presentation outlines the tools used with gifted students to teach programming. Participants will learn about student needs and engage with hands on tools.		
Enzo Ciardelli			
Parent panel, what to expect as a robotics parents.	Joining a robotics team can be a scary experiencefor parents! Learn what to expect and how to support your child in their first year, as well as tips on how make sure they get the most of their experience on a FIRST Robotics Team. Open to all parents - this talk will recap a year in the life of a Robotics Team Member Parent - as told by 2056 Team Parents, but applicable to all Team Parents from any team.		
Jeff Beattie			
The Importance of RF Communication in Robotics	Radio communications is essential for robotic operations. Even autonomous automation requires radio links for feedback, geographic locating, seamless integration to other systems, and validation. The need for effective communication over greater distances for mining, vehicles, flight, and even smaller locations like factory floors demands robustness in radio links. This presentation will explore radio links and provide the first principles for designing effective networks.		
Michael J Martin			
Volunteering in FIRST	We will be speaking about ways to get volunteering within the organization, and the different pathways that there are.		
FIRST Canada Youth Council Members: Brandon H. & Wren T.			