

2023 FRC Workshop Agenda

Time	Room 1 (311)	Room 2 (312)	Room 3 (308)	Room 4 (307)	Room 5 (304)	Room 6 (309)	Room 7 (301)	Room 8 (328)	Room 9 (327)	Room 10 (325)
5:30 PM	Doors Open (Presenter setup)									
6:00-6:30 PM	How to win an FRC Regional	RACI Matrix	STEM Advocacy	Safety for FIRST Teams	Fundraising	Sensors & Feedback Loops	Swerve Drive in a Nutshell	Assistive Technology: How Soldering Two Wires Can Change Someone's Life	Fundamentals of Strategic Design	What Judges Really Want
5 minute break										
6:35-7:05 PM	What The Si Se Puede Foundation STEM Center Can Do For You!	RACI Matrix	Safety for FIRST Teams	How to Expand Opportunities and Build a Resume using Your FIRST Experience	Fundraising	Command-Based Model	Swerve Drive in a Nutshell	The Engineering Design Process: How to Tell Your Team's Story	Fundamentals of Strategic Design	What Judges Really Want
5 minute break										
7:10-7:40 PM		RACI Matrix	How to Expand Opportunities and Build a Resume using Your FIRST Experience	STEM Advocacy	Fundraising	Command-Based Model	Swerve Drive in a Nutshell	The Engineering Design Process: How to Tell Your Team's Story	Fundamentals of Strategic Design	What Judges Really Want
7:40-8:00 PM	Open Q&A									

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Title of Workshop	Description of Workshop
RACI Matrix	About 10 years ago, I taught my FLL team how to use the RACI matrix, a common project management tool used in the industry, to manage roles and responsibilities. It worked so well that I taught it to all levels of FIRST in Alaska. It exploded and has become commonplace with Alaska-based FIRST teams. This tool is useful for both coaches and students.
STEM Advocacy	A delegation of CocoNuts traveled this summer to the National Advocacy Conference in Washington, DC. Learn how to start advocating for STEM at the local, state, and national levels to make your voice heard.
How to Expand Opportunities and Build a Resume using Your FIRST Experience	This workshop will provide advice on how to get scholarships and internships using FIRST your experience and how to incorporate FIRST into your resume.
Safety for FIRST Teams	Learn how to build a culture of safety on your team and how to stay safe during meetings, in the pits, and at competition.
How to win an FRC Regional	What are the commonalities of teams that win regionals? A review of best practices from a Hall of Fame mentor.
What The Si Se Puede Foundation STEM Center Can Do For You!	A review of all the services available to FRC teams
Sensors & Feedback Loops	Learn which sensors are available for FRC teams to supercharge their autonomous modes, and how to implement closed-loop feedback for accurate tracking. This workshop is applicable to any and all programming languages, including Java, C++, and LabVIEW teams.
Command-Based Model	Learn more about how to program your robot using the command-based pattern available in WPILib, making your robot more reliable and extensible. Examples will be provided in Java, but libraries are available for C++ as well.
Assistive Technology: How Soldering Two Wires Can Change Someone's Life	Learn how soldering two wires can dramatically increase the quality of life for members of your community.
The Engineering Design Process: How to Tell Your Team's Story	Learn about the engineering design process and how to effectively document it to help tell your team's story.
Swerve Drive in a Nutshell	Learn the basics of programming a swerve drive from a team that built their first swerve last season.
Fundraising	Fundraising 101
Fundamentals of Strategic Design	There are lots of ways FRC teams approach designing their robot each year. Often many skip several very important steps in a rush to get something working as quickly as possible. In this workshop we will cover overlooked strategic fundamentals such as game analysis, cost-benefit analysis, task prioritization, and making tradeoffs. The goal is to provide teams with a foundation for making better choices during the entire build season beginning with their robot design and ending with their last match of the season.
What Judges Really Want	The real stuff from the queen of Judges