

<b>Workshop</b>	<b>Description</b>
An Ethics Experience: Why Your Team Should Have One	An experience in which we will explore both the importance and necessity of pre-planning for stressful decisions.
Be IMPACTful!	The workshop will talk about why every FRC team should consider submitting the IMPACT award. We will be talking about the value of the award, what it means to receive this award and the steps that are taken in order to submit the award. We will be providing some personal experiences throughout the presentation as well as <u>general guidance for teams who are new to the IMPACT process.</u>
Design Team Dynamics	Explore various leadership styles, organizational techniques, and CAD practices to utilize during the season. <u>Learn the best ways to share ideas, files, and workloads with your teammates!</u>
Fundraising	Fundraising 101, tips and insight on how to successfully fundraise.
Help us help you - tips from an FTA	Tips from the FTA Team to get you competition ready
Impostor Syndrome in FIRST	Feeling a bit sus? Like any praise you receive is unwarranted? Like you're an impostor on your team and you're worried that everyone will find out? There's a name for these feelings. It's called, "Impostor Syndrome." Learn about what Impostor Syndrome is and how these feelings might be a lot more common than you think.
Introduction to FRC Programming with Java	An overview of Java syntax, how to think like a coder, and the tools available to take your code to the next level. Over the course of the workshop, you will build your own code for a simulated robot!
Need Help? Beak Squad to the Rescue!	No autonomous code? Leak in your pneumatics? Mechanism broken? The Beak Squad is here to help! Learn about a new initiative by 6413 where AZ FRC teams can access a host of free resources to help them compete at their best!
Mastering Robot Design for the Future	Join our workshop where innovation takes center stage-- from foundational mechanical design principles to the intricacies of AI-powered control systems. Uncover the secrets of creating robots that redefine the future.
What to expect at inspection	A walkthrough on the inspection process and tips to get through quickly
Taking Your Team to the Next Level with Arizona Robotics League	Learn about Arizona Robotics League, the benefits of competing in ARL, and how to capitalize on the League to build a better FRC program, robot, and team.
Swerve Drive in a Nutshell	An examination of how a swerve drive works, and the math that goes into programming one.
The Impactor's Guide to Build and Competition Season	In this workshop the CocoNuts are going to teach you how to have a successful Impact season. Our tried and true methods to prepare your submission for the prestigious Impact award.
STEM Advocacy in a Nutshell	A delegation of CocoNuts traveled this summer to the National Advocacy Conference in Washington, DC and organized an advocacy day at the Arizona Capitol. Learn how to start advocating for STEM at the local, state, and national levels to make your voice heard and generate more support for your team and robotics.
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 your FIRST experience and how to incorporate FIRST into your resume.

Are you ready to take your FRC team to the next level of success? Join us for a comprehensive workshop on FRC scouting and data visualization, tailored for teams that are either starting from scratch or looking to enhance their scouting programs. Scouting is an indispensable part of FRC competitions, and when combined with effective data analysis and visualization, it can be the key to strategic triumph.

**Workshop Objectives:**

- 1: Understanding Scouting: We will begin by demystifying the concept of scouting. What is it? Why is it vital for your team's success? We'll explore the fundamental principles of scouting, emphasizing its pivotal role in forming strategic alliances and making informed match-by-match decisions.
- 2: Setting Up a Scouting Program: Building an efficient scouting program is crucial. We will guide you through the process, from identifying the key roles within your scouting team to selecting the right tools and technologies for data collection. You'll learn how to tailor your scouting program to suit your team's unique needs and resources.
- 3: Data Collection Strategies: Effective scouting begins with data collection. Our workshop will cover what kind of data you should gather and how to do it systematically. We'll delve into different strategies for data collection, including paper-based methods, mobile apps, and other digital tools. You'll also discover the best practices for gathering comprehensive data during the competition.
- 4: Quick Data Analysis: Speed is of the essence in FRC, and quick data analysis is paramount. We will introduce you to efficient techniques for rapidly sifting through collected data and extracting valuable insights. You'll learn how to identify trends, strengths, and weaknesses in real-time, giving your team the competitive edge it needs.
- 5: Data Visualization: Data becomes actionable when it's presented in a clear and intuitive manner. Our workshop will cover the art of data visualization, teaching you how to transform raw scouting data into easy-to-understand graphics and charts. Visualization is a powerful tool for making informed decisions and strategizing effectively.
- 6: Scouting in Action: Witness the practical application of scouting and data visualization in real FRC scenarios. We will walk you through case studies and live demonstrations to show how scouting impacts alliance selections, match strategies, and the overall performance of your team.
- 7: Interactive Exercises: To reinforce your learning, we will have interactive exercises where you'll have the chance to practice scouting, data collection, and visualization with guidance from our experienced Strategy Lead Vihaan Patel and our Strategy & Scouting Mentor Bruce Kahn.

**Who Should Attend:**

This workshop is ideal for FRC teams that are new to scouting or are in the early stages of developing a scouting program. If you're looking to maximize your team's competitive potential, this workshop will provide valuable insights and tools to help you get started on the right track.

**Workshop Benefits:**

- Gain a deep understanding of scouting's role in FRC and its impact on team success.
- Learn to set up a scouting program tailored to your team's needs and resources.
- Discover effective data collection strategies and technologies.
- Acquire quick data analysis techniques to make real-time decisions.
- Learn the basics of the art of data visualization for clearer insights.
- Observe scouting principles in action through case studies and live demonstrations.
- Build practical skills through interactive exercises.

Don't miss this opportunity to equip your team with the knowledge and skills needed to excel in FRC competitions. Register for the Scouting and Data Visualization Workshop today and gain the competitive edge your team deserves. Whether you're a rookie team or just beginning your scouting journey, this workshop will set you on the path to success. We look forward to seeing you there!

Scouting and Data  
Visualization

Are you ready to elevate your FRC team's game by developing an effective strategy that will guide your decision-making and actions from the very beginning of the build season through all of your competitions? Join us for the Strategy and Strategic Design Workshop, designed to equip teams with the tips and knowledge needed to craft a winning game plan and make strategic design decisions.

**Workshop Objectives:**

1: Understanding FRC Strategy: We will start by unraveling the intricacies of FRC strategy. What is it, and why is it essential? You'll gain a clear understanding of how strategy shapes the overall performance of your team and the role it plays in alliance selection and match tactics.

2: Strategic Design Principles: Your robot's design is at the core of your strategy. We'll explore principles of strategic design, emphasizing how your robot's capabilities and features should align with your overall game plan. This includes considerations for offensive and defensive roles, mobility, and endgame actions.

3: Build Season Strategy: Successful teams start crafting their strategies from day one of the build season. Learn how to establish clear goals and priorities for your robot's design, construction, and programming. We'll provide insights into how to set achievable targets that align with your team's resources and capabilities. Learn to identify your team's strengths and weaknesses, as well as those of your competitors.

4: Prototyping and Iteration: Effective strategic design often involves prototyping and iterative development. We'll delve into the processes of creating prototypes, testing, and refining your robot to meet your strategic goals.

5: Match-by-Match Tactics: Once a competition start, it's crucial to adapt your strategy on a match-by-match basis. We'll provide guidance on how to assess your competitors, devise match-specific tactics, and communicate effectively with your alliance partners for synchronized gameplay.

6: Alliance Selection Strategy: Forming strong alliances can be a game-changer in FRC. We'll discuss how to evaluate potential alliance partners, make effective selections, and contribute to your alliance's overall success.

**Who Should Attend:**

This workshop is perfect for FRC teams looking to enhance their strategic capabilities and design approach.

Whether you're a rookie team or have several seasons under your belt, the workshop offers insights and practical knowledge to help you develop and execute a winning game plan.

**Workshop Benefits:**

Gain a comprehensive understanding of FRC strategy and its importance.

Learn how to set effective strategies from the start of the build season.

Develop a strategic robot design that aligns with your team's goals.

Understand how prototyping and iteration skills lead to design optimization.

Realize how the initial design choices made during the build season serve as the driving force behind the efficiency of match-by-match tactics.

Whether you're just starting your FRC adventure or looking to refine your strategic approach, this workshop will provide you with the tools and ideas to achieve your goals.

Strategy and Strategic Design