NE *FIRST* University Day in Connecticut 2016 Session Descriptions

Chairman's Panel

Answering questions regarding the Chairman's Award to help other teams in the process of applying for it.

Nick Rappi, Tyler Peruta, Ashley Barry & Duna Sami

Competitive Drivetrain Design

Drivetrain design for FRC, Kitbot and Beyond, because if you can't move, you can't score!

Justin Foss

Driver Dtation Dashboard Creation using HTML + Javascript

Use web technologies to create a functional and cool looking dashboard that can be used to control your robot and provide diagnostic feedback

Dustin Spicuzza

Dumpster Diving: How to Get Stuff for Your Team for Free or at Little Cost

Dumpster diving is but one of many ways for your team to acquire free materials! In this session I'll share tips for how to obtain low-cost or free items for your team as well as some pitfalls to avoid.

Kathie Kentfield & Jack Kentfield

Effective Fundraising for FRC

Discussing strategies for raising an adequate amount of money to support an FRC Team, focused on grants and sponsorships.

Beth Cavanaugh

Effective Prototyping Strategies for FRC Teams

This presentation will explore the art and science of prototyping in the context of the FRC build season. Building useful prototypes will help any team determine important design parameters early in the build process. Prototyping effectively results in a more successful "first iteration" of the competition robot that plays the game effectively throughout the season. Topics covered in this discussion include brainstorming, objective-setting, prototype design, construction, iteration, and evaluation.

Chris Picone

FRC Rent-a-Mentor

Kicking off a new Website and Program for CT teams to allow resource sharing of mentors in all fields, Technical and Non-Technical.

Justin Foss

From Helicopters to Lawnmowers: Imparting the *FIRST* Philosophy to Parents

Dealing with today's very-involved parents can sometimes be difficult. I'll discuss how to get the *FIRST* philosophies of Gracious Professionalism and Coopertition across to your team parents.

Kathie Kentfield

Image Processing using OpenCV + Python + mjpg-streamer

Learn about basic image processing techniques such as target tracking to enhance your robot's capabilities

Dustin Spicuzza

Introduction to *FIRST* Robotics Competition

This session will be all about helping you figure out how to run a successful FRC team. Whether you are a rookie or veteran, new mentor, parent, or student team lead, I will cover a variety of topics from funding to getting your robot through inspection successfully. Q&A is required!

Dana Henry

Match Strategy and Scouting with Apple Pi

An overview of different methods of scouting (pit scouting/pre scouting/match scouting etc.) and their respective benefits and associated negatives. The presentation will then shift into discussions on how to effectively utilize scouting information in match strategy and pick lists.

Apple Pi, FRC Team 2067

Networking: Making Friends and Influencing the *FIRST* Community

Join me as I discuss several forms of networking and how it can benefit your team in the *FIRST* community.

Jack Kentfield

No Money, No Problems

There is a fact that each of us have learned: resources makes the world go round. In the *FIRST* Robotics Competition the most valuable resources are knowledge and money. In this presentation, we will explore the best ways to fabricate a successful robot with minimal finances. From strategic analysis to reducing robot subsystem costs, the discussion will be on how to participate competitively from Fall to Spring.

Justin Niezrecki

Outreach

Helping teams find outreach opportunities that work for them and their communities.

Stacey Gray

RobotPy: Robot programming and simulation using Python

Learn about the basic structure of a robot program using python and how you can use the pyfrc robot simulator to quickly test your robot code without a robot

Dustin Spicuzza

SolidWorks

The basics of SolidWorks and how it is applicable to *FIRST* Robotics.

Tyler Vu & Kris Kubiak

Swerve Drive

Mechanical and programming aspects of incorporating swerve on your robot

Chris Garuti & Kaitlyn Sandor

There are *FIRST* Alumni Relations?

Overview of *FIRST* Alumni Relations, including the *FIRST* Scholarship Program, Internship Portal, and Networking Group; followed by discussion on how *FIRST* HQ can make it easier and more desirable to remain engaged with *FIRST* as an Alum.

Ryanne Cook