

2021 FLYSET Virtual FTC Workshop

Time: 10/2/2021 1:00 pm - 5:00pm
 Location: Virtual Via Zoom
 Hosting teams: 8565, 18227

General Session				host
Time Slot	Session title	location	Presenter (Team)	
12:50-1:00pm	Zoom open: DEKA and FedEx Intro videos	Main Session		
1:00-1:05pm	Welcome	Main Session	Dr. Fang Wang (8565)	Fang (8565)
1:05-1:25pm	DEKA Research and Development: Natural Problem Solving	Main Session	Caleb Kase	
1:25-1:45pm	FedEx Bot Operations: Emerging Trends & Technologies in Transportation	Main Session	Tanner Moss	Anthony (8565)
1:45-2:00pm	FIRST in Texas: 2021-2022 Season North Texas Event Updates	Main Session	Lon Cherryholmes	
2:00-2:20:pm	Texas Cup Game Analysis: Drivers Reflection	Main Session	5890/11093/13053 8565/7172/13072	Parvel Gu (18227)

Break (videos of FGC from 2017)

Time Slot	Session title	location	Team	
2:30 PM	FIRST Global Challenge Track	Main Session		
2:30-2:40pm	Team Zimbabwe on FGC history	10	Team Zimbabwe	
2:40-2:50pm	2019/2020 FGC Team USA experience	10	Team USA (9879)	
2:50-3:00pm	2021 FGC Team USA experience	10	Team USA (8565)	
3:00-3:15pm	2021 FGC Team Afghanistan experience	15	Team Afghanistan	
3:15-3:35pm	2021 Team USA Solution Challenge	20	Team USA (8565)	
3:35-3:40pm	Giveaway drawing #1 (goBILDA Dark Matter Hoodie)	5		Melody (8565)
3:40-3:50pm	2021 FGC Team Nicaragua experience	10	Team Nicaragua	
3:50-4:10pm	2021 Team USA Robotics Challenge	20	Team USA (8565)	
4:10-4:35pm	2021 Team USA and Team Zimbabwe Cube Sat Challenge	25	Team USA (8565)	
4:35-5:10pm	OnShape Hands on Activity	35	8565	
5:10 PM	Special Audience Drawing* #1 (\$25 Amazon Giftcard sponsored by FLYSET)			
2:30 PM	Beginner Technical Track	Breakout Room #1		
2:30-2:40pm	Engineering Design Process	10	9879	
2:40-2:55pm	FTC Freight Frenzy Strategy	15	16458	
2:55-3:10pm	FTC Actuators and Sensors 101	15	8565	
3:10-3:20pm	Code version control	10	18227	
3:20-3:35pm	Outreaching as a new team	15	18175	
3:35-3:40pm	Giveaway drawing #2 (\$25.00 goBILDA Store coupon, two 5203 Series Yellow Jacket Motors)	5		
3:40-3:50pm	Macnaum drive modes in teleop	10	18227	Jessica (18227)
3:50-4:10pm	Intro to 3D Printing	20	12635	
4:10-4:20pm	Using Fusion 360 in order to model essential components for your robot.	10	18097	
4:20-4:35pm	Cadding a drivetrain	15	18175	
4:35-4:45pm	Outreach: Creating and running robotic and STEM camps	10	202101481	
4:45-5:00pm	How to build a robust and high scoring robot.	15	7172	
5:00 PM	Giveaway drawing #3 (\$25.00 AndyMark Store coupon)	5		
5:00 PM	Special Audience Drawing* #2 (\$25 Amazon Giftcard sponsored by ACP Foundations)			
2:30 PM	Advanced Technical Track	Breakout Room #2		
2:30-2:45pm	RemoDrive	15	12611	
2:45-3:00pm	Odometry first encounter	15	18175	
3:00-3:20pm	Open CV vision processing	20	16072	
3:20-3:35pm	Tensor flow model training	15	18227	
3:35-3:50pm	Playing FFUTSE - an open-source Freight Frenzy Universal Team Shipping Element	15	6832	
3:50-3:55pm	Giveaway drawing #4 (\$25.00 goBILDA Store coupon, two 72mm Gecko Wheels)	5		
3:55-4:15pm	OpenCV Vision Pipelines - From GRIP to testable implementations in Java with live previews in Dashboard	20	6832	Shuopu (8565)
4:15-4:30pm	Vision Targeting in Ultimate Goal Season	15	18227	
4:30-4:40pm	Roadrunner Simulator Introduction	10	8565	
4:40-4:55pm	Linear Slide Introduction and Spool Size Calculation	15	8565	
4:55-5:10pm	CNC Routing with Fusion 360	15	8565	
5:10 PM	Giveaway drawing #5 (\$25.00 AndyMark Store coupon)	5		
5:10 PM	Special Audience Drawing* #3 (\$25 Amazon Giftcard sponsored by ACP Foundations)			



Many thanks to the following presenting teams
FTC teams: 5890, 6832, 7172, 8565, 9879, 11093, 12611, 12635, 13053, 13072, 16072, 16458, 18097, 18175, 18227
FGC teams: Team Afghanistan, Team Nicaragua, Team USA, Team Zimbabwe



and the following sponsors for providing giveaway products/certificates



* Special Audience Drawing eligibility: ask at least one question in the track