



CITRUS CIRCUITS

NOVEMBER NEWSLETTER

UPCOMING EVENTS

DYR Tournament
December 11, 2021

2022 Season Kickoff
January 8, 2021

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CHEZY CHAMPS

On Halloween weekend, Citrus Circuits participated in our first in-person competition since the beginning of the COVID-19 pandemic. Chezy Champs is an annual offseason competition where teams compete against each other to determine the team that is "best in the west." At this competition, we seeded eighth overall, and made it to the semifinals before being eliminated. In addition to ourselves, 40 other teams from across the United States, as well as one team from Israel, were in attendance. To accommodate COVID guidelines, particularly those regarding room capacity, we limited our travel team to 14 members, and had all of our scouts working from our shop using live streams of the event.

MADTOWN THROWDOWN



Citrus Circuits concluded our last offseason competition of the 2021 season at MadTown Throwdown hosted by MadTown Robotics. The competition was held on November 13-14 in Madera, CA. We brought a total of four robots: clones of robots from FRC teams 4414 and 2910, as well as our 2020 competition robot (Mk1) and the improved (Mk2) version

of the robot. By the end of the event, our 2020 competition robot and Mk2 went head to head in the finals, finishing with our Mk2 robot and its alliance partners coming out on top. Thank you to all the members who worked so hard to make this happen, and parent volunteers who drove and supplied food to everyone on the team during this event.

DYR TOURNAMENT

On November 6, Citrus Circuits hosted our first DYR tournament in two years. Teams played the 2021 VEX IQ games with their competition robots. The general premise of the game was to score the most points by shooting balls into either the low goal or the high goal. At the DYR tournament, members of Citrus Circuits volunteered as judges, announcers, field resetters, photographers, and scorekeepers. A total of 23 teams and over 100 students in grades 4-8 participated in the competition. At the end of the game, we handed out awards to the teams for their teamwork, robot designs, robot skills, excellence, and sportsmanship.

GIRL POWERED

During October, Citrus Circuits held an in-person Girl Powered event with fun Halloween themed activities. With continued excitement, we held our third in-person Girl Powered program on November 20 with fun activities such as candy catapults and lava lamps. The event was held outside of M1 on the Davis Senior High School campus, following COVID protocols in order to be safe for all participants. Information and registration for future Girl Powered events will be available on our website with more information.

TRAINING

Over the past four months, each of our subteams have been training new members in various skill sets in preparation for competition season. Here is a quick summary about each.

Hardware

New hardware members cycle through trainings on a variety of intersectional subjects, such as shop organization, auxiliary machines, electrical, design, and rotations on the mill, lathe, and router. Our newest members in design began with basic CAD concepts using the industry standard drafting application Onshape. New members also studied videos from other courses and applied their skills in exercises each week. In addition, they have learned to design with pneumatics, how to design a gearbox, and put together a simple mechanism. Hardware electrical members were able to experience hands-on training with all four of our competition and off-season robots. In addition, veteran members taught lessons ranging from circuit boards and pneumatics to power loops and basics of crimping, housing, soldering, and wire theory.



Software

New software robot members were able to get experience by working on all four of the robots we took to MadTown Throwdown. Veteran members also provided lectures on various aspects of the robot, creating a solid foundation on how to write a subsystem and autos. Being able to work with multiple robots allowed new members to experience what is expected of them during competition season. Software scouting's training consisted of slideshow presentations and weekly assignments teaching new members server structure, data transfer using QR codes, and communication with the MongoDB Database.

Business and Media

Members of Business and Media have had numerous trainings in photography, video production, and writing. Students are also learning to use Adobe applications and how to apply our branding standards. Additionally, new members have learned about our sponsor retention program and management of social media accounts like Instagram, Facebook, and Twitter.