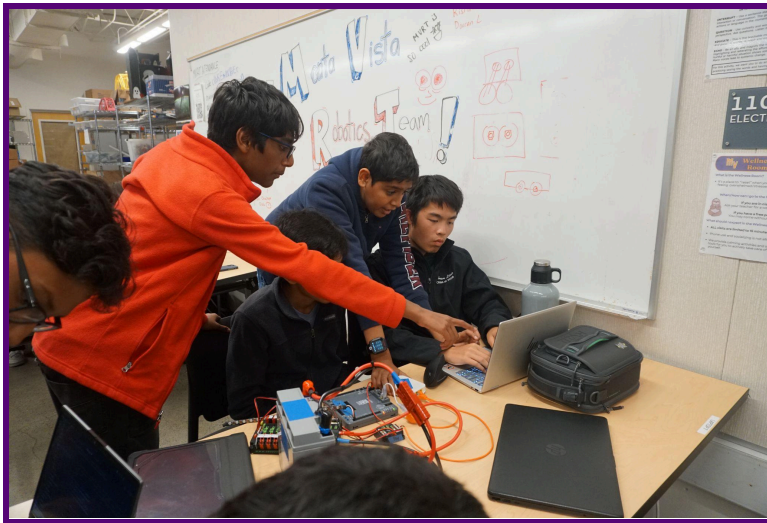


November 2024 Newsletter

As November comes to an end, MVRT wrapped up our annual rookie training and launched countless outreach programs!



Throughout November, MVRT continued our rookie training. Rookies dived deeper into concepts engulfing both the engineering and operations divisions. Specifically, as part of the engineering divisions, on the mechanical side of things, rookies learned how to use CAD, a primary software used within the team, learned how to use countless power tools part of MVRT's day-to-day use, and applied these skills into assembling their very own kit bot! Moreover, they got to dive

into software and electrical as well. By participating in a fun LED project, rookies learned how to hook up the LEDs to power through the electrical aspect and control the LEDs through the code they ran. On the engineering side of things, by combining all the skills they learned during rookie training, the rookies put together a shooter attached to a kit bot, combining aspects of mechanical, electrical, and software!

At the same time, Rookies continued working hard on their operations projects which were presented to MVRT officers! Specifically as part of the Operations project, rookies were tasked with combining aspects of finance, outreach, and marketing. On the Finance side of things, rookies were tasked with answering a set of 6 grant questions and selling themselves. Grants are a central part of the MVRT's finances and the primary way we get our money! Furthermore, rookies demonstrated the skills they learned regarding budgeting as well, as part of the slideshow they presented. Additionally, on the outreach side of things, rookies were tasked with researching one of MVRT's countless outreach programs! Specifically, they took a deeper look at Headstart, WJO Taiwan, Ohana, Symposium, and our FLL programs. They were not only tasked with researching their outreach programs but also needed to present the basics behind their outreach programs through the slides that they created such as the outreach program's overview, objectives, and achievements. Finally, for the marketing aspect, rookies were tasked with creating their very own impact video. The impact video is another central part of MVRT's awards submission and encompasses all of MVRT's outreach programs and community impact. Rookies were tasked with creating a simplified version, focusing solely on their outreach program. By combining their work for the three operations divisions into one slideshow,

the groups presented their project to a panel of MVRT officers!

Furthermore, MVRT also conducted our first Ohana lab for this year! Members from MVRT and Ohana worked together to present a fun and interactive slime lab to members of Monta Vista's special education classes. Through the slime lab, students were able to understand chemical reactions, make slime, and have a great lunch!



Additionally, MVRT also concluded our FLL seasons this November! All in all, MVRT mentored 6 teams who were successful in building a robot for their regional competitions. This year, the FLL game theme was submerged in which, FLL students were tasked with

creating a bot that dealt with obstacles themed around the underwater. Each week, MVRT mentors met up with their FLL teams and guided them through the process of creating, designing, building, and strategizing. Moreover, FLL teams were also tasked with creating an innovation project. They had to present and research a proposed solution to a problem faced by people who work in the ocean.



Finally, another outreach program that took place during

November is our STEM4Kids program! STEM4Kids is an annual program in which MVRT veterans teach younger children in underfunded schools. This year, MVRT is teaching Python, Java, and Webdev. Our STEM4Kids classes run from November 10th up until December 8th, holding one-hour-long classes every Sunday completely free of cost! In each STEM4Kids class, students learn the basics of the programming language.

All in all, November has been a packed month for MVRT, especially regarding our outreach programs! As we wrap up for the 2024 year, we can not wait to come back in January and dive into the upcoming build season.