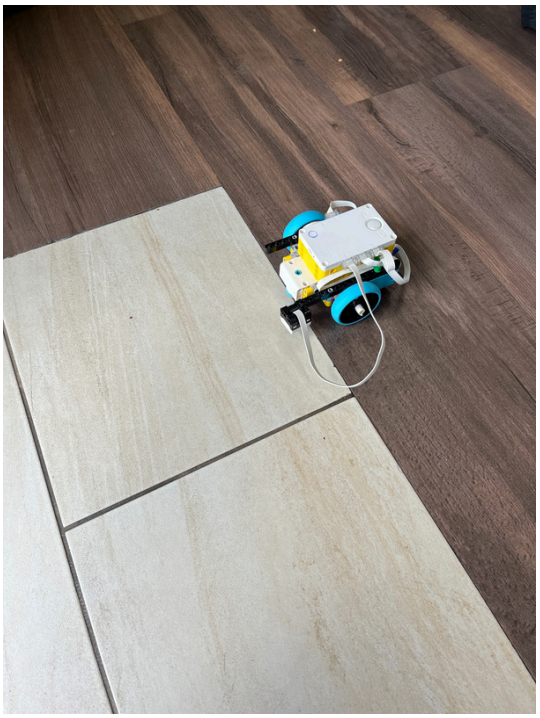
NAMCC SUMMER ROBOTICS NEWLSTTER

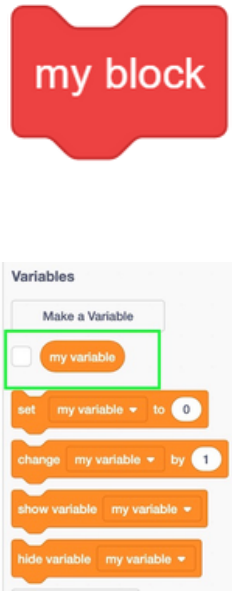
MADE BY FTC TEAM CYBER SALAM #26903



THE WEEK AT A GLANCE

This week the classes learned about line followers and color sensors. These are very important sensors since they are what the robot use on the competition field. However, during our class we made our students try out different activities to learn more about the line follower and color sensors.

One activity we did was testing the line follower. During this activity, students programmed their robots to move forward until the color sensor detects the color white.



WHAT'S NEXT

Going into next weeks class, the topics being covered will be Variables and My Blocks. Students will be taught through lecture and in-class activities about how to implement these topics into their programming.

My Blocks are a way to make code more organized, avoid repitition in Scratch, and make programs easier to understand.

During this week's class we also informed students about the Robo-Olympics challenge. This challenge is shown in the video below in missions 02, 03, 09, 13, 15: https://youtu.be/J5u-2q_K3O0

FUN FACT

Robot in Movies vs. Reality

Robots in Movies vs. Reality: While many movie robots are evil (like Terminators), real-world robots are mostly used for cleaning floors, assembling cars, and helping people with disabilities.

ROBO RIDDLE

I have no heart, but I can move.
I have no brain, but I can learn and improve.

I may not sleep, but I work with might—
Helping humans day and night.
What am I?

ROBOTICS IN REAL LIFE

By: Mohid Malik

I visited my extended family in Milwaukee, Wisconsin, this summer. During my stay, I toured the Milwaukee Amazon Fulfillment Center. It was a great experience to see the behind-the-scenes process of how Amazon orders are fulfilled.
During the guided tour, I observed how robots retrieve items from shelves that are coded with specific locations. Items are then placed in large, tall carts carried by robots to the packaging department. From there, items are transported via conveyor belts. There are approximately 30 miles of conveyor belts within the building.
The tour guide also showed us how each package is labeled with its delivery address. Once labeled, the packages are loaded onto trucks for delivery.
I highly recommend this tour. You can search for “Amazon facility tours” to find dates and locations near you.

CLASS 1 HIGHLIGHTS

This week, campers took teamwork to the next level as they split into squads and began strategizing for the upcoming Robo-Olympics. They assigned team roles and sketched out plans and attachments to use during the game, thinking through mechanisms like precision and object transport. The room was filled with intense debate, innovation, and creativity as each squad began preparing for the high-stakes competition.

CLASS 2 HIGHLIGHTS

Class 2 worked hard on getting the color sensor to work. In the top picture, Maryam, Yasmine, Saja and Ifra all worked on making the color successfully work and added additional components to make the color sensor sturdy on the robot. In the picture on the bottom, Kareem, Abdullah, Nayir, and Adam all worked on coding the color sensor. In this picture they were all working on troubleshooting the code for the color sensor.

CLASS 3 HIGHLIGHTS

Today the class was introduced to the line follower program. They began to code their own line follower code and they had some struggles with getting the code to work properly. One groups robot even started going backwards instead of following the line. Turns out all they were missing was a forever loop which kept the code repeating so that it would follow the line. The group whos robot went backwards just had their rights and lefts mixed up in their code.

TEAM CYBER SALAM

Team Cyber Salam is a FIRST Tech Challenge Team with a mission to spread STEAM in our Muslim community. Our team aims to accomplish this mission by assissting NAMCC with their summer program. Our team competes from September to March working tirelessly to build a robot capable of completing the robot game in the best way possible. The robot shown to the right is one iteration of our robot during the season. Throughout the season, we won many accolades including second place in our area championships (also shown to the right). We are currently looking for new members to expand our team. Age ranges range from 8th grade through high school. The application process also consists of an in-person interview with the Cyber Salam robotics team at an assigned date.

DONATE BELOW TO CYBER SALAM TEAM!

AND VISIT OUR TEAM WEBSITE HERE!

WANT TO BECOME A MEMBER OF OUR FIRST TECH CHALLENGE TEAM?

Scan Below to Apply!