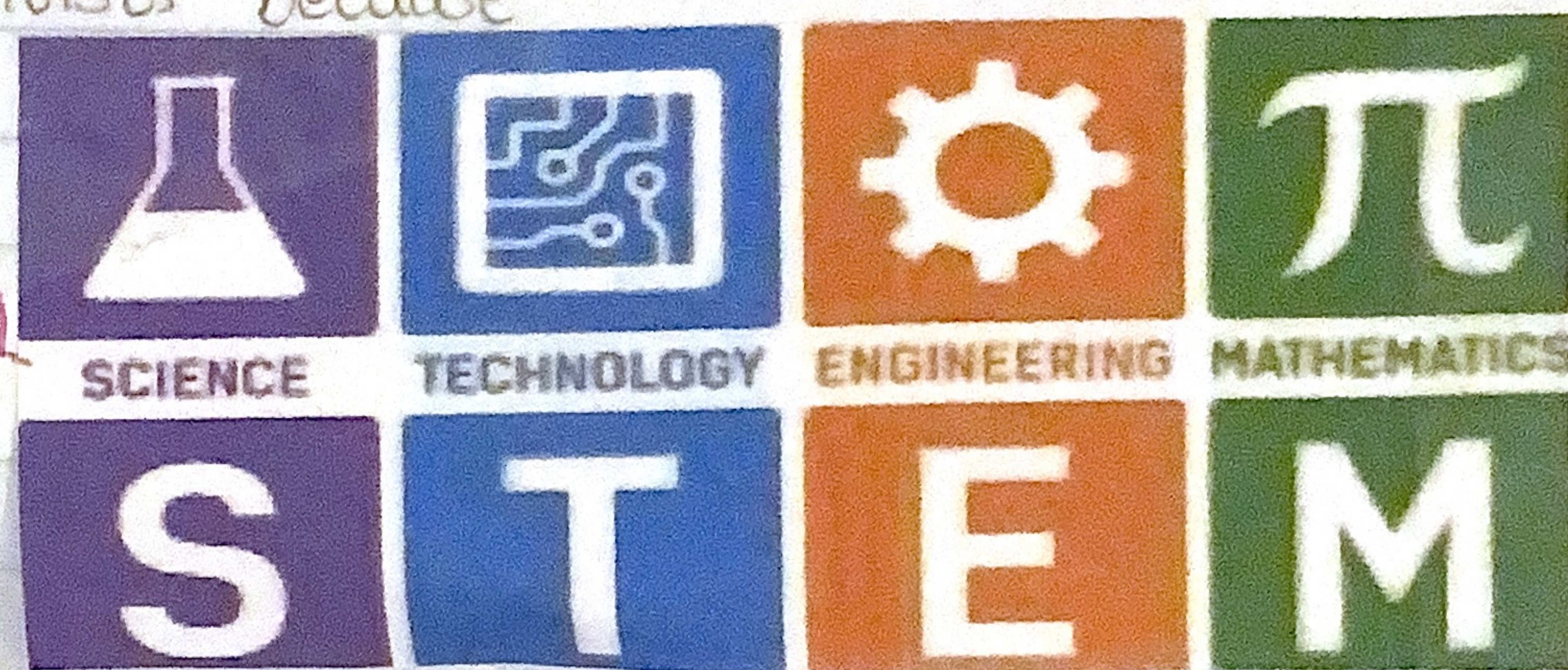


CAREER READINESS CHALLENGE!

Team: 1021N
Names: Layla & Irene

Computer scientists: Computer scientists are one of the most popular STEM majors. Much like what we do in robotics, computer scientists design, develop, and analyze software used to solve problems. In simpler terms, they use technology to solve problems. Out of all the STEM careers, we chose to write about computer scientists because

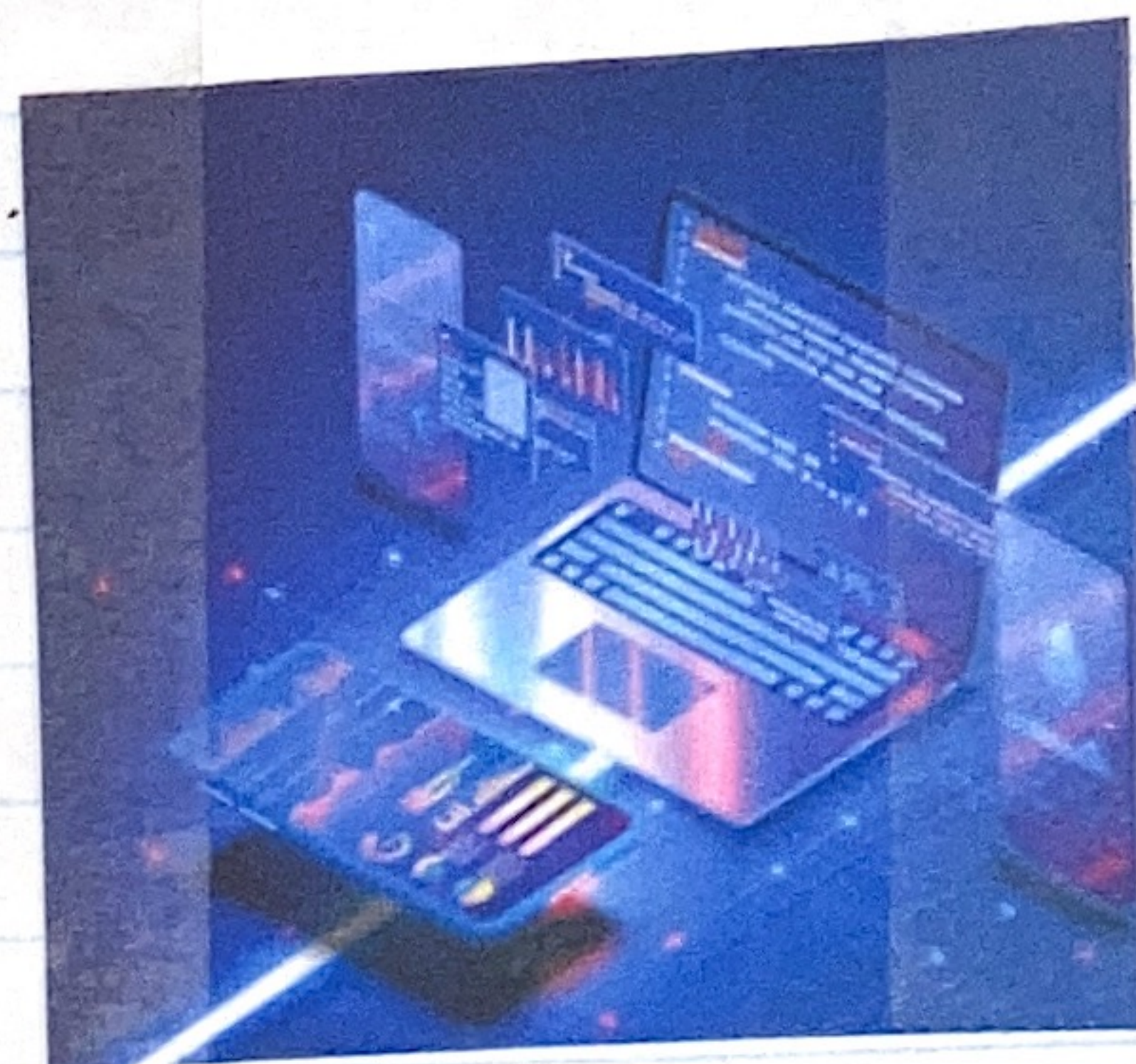
STEM stands for science, technology, engineering, and math. The most popular STEM careers include software developer, electrical engineer, computer scientist, and IT manager.



Why did we pick this career, and how do they relate to VRC robotics?

Out of all the STEM careers, we chose to write about computer scientists because of how close they work with technology, and how they develop softwares to make it even better. Our generation has so much technology at are fingertips that we use everyday, and mostly for entertainment purposes. Its really important that we understand how all this technology works as it continues to get stronger. In robotics, we learn how all these pieces work together in order for it to carry out tasks. Of course, just how like computer scientists go through, there is a lot of trial and error, and we have to go back to fix and tweek. This also applies to the programming aspect. While there are many other jobs that are similar, robotics involves construction

and design in order to help us (which is, in our case, to help us get and shoot the pucks), and computer scientists use those same skills to help make life easier for humans.



The design process for computer scientists

- What is the problem/What will be the solution (basically just planning)
- Choosing the software development approach
- Designing the 'template'
- Developing the code
- Testing for bugs

VS

The design process for our robot

- What does the robot need to do/How can we make it better than the last one
- Researching ideas, looking at other robots
- Drawing it out
- Constructing
- Driving/Testing

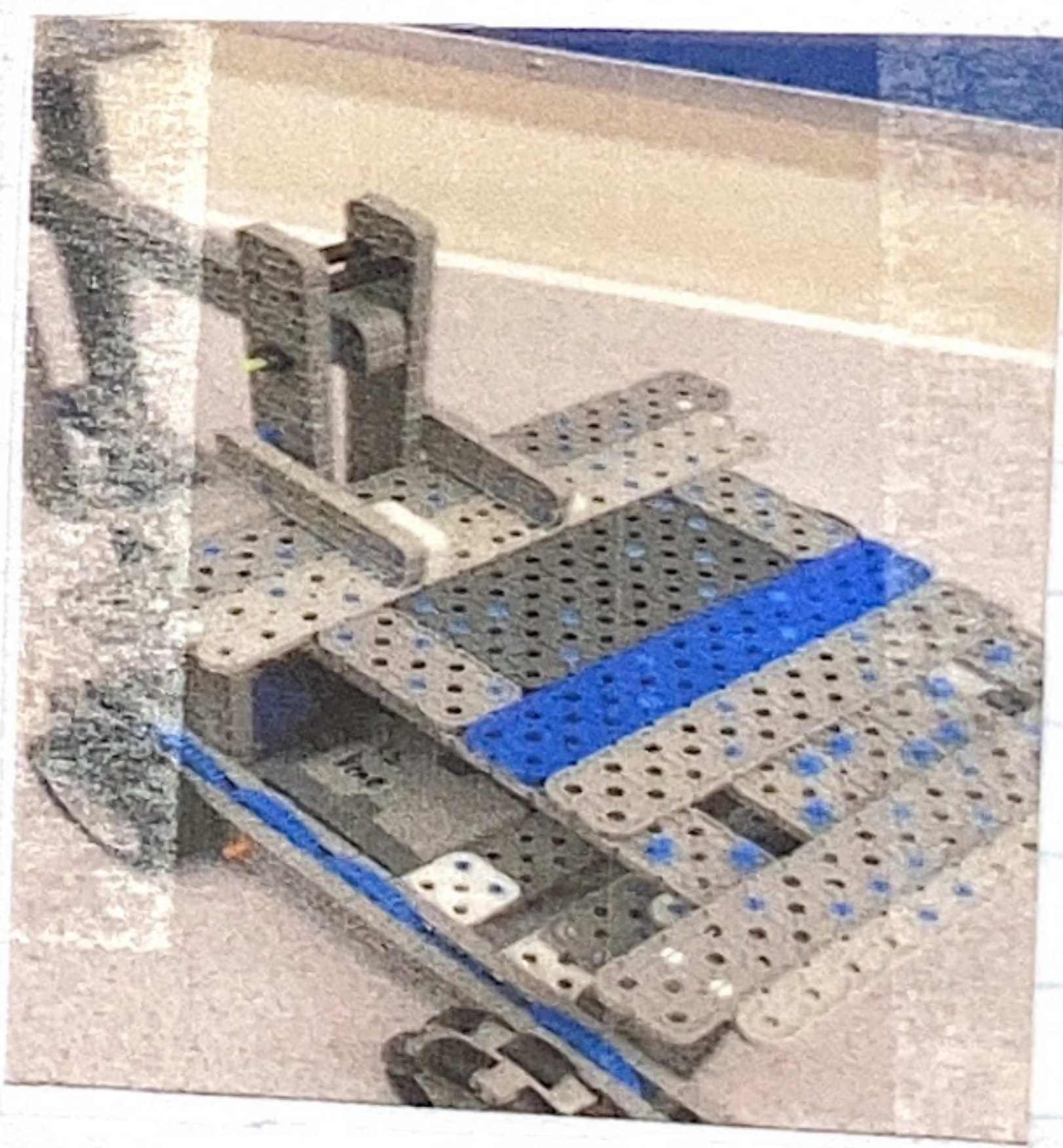
After looking at the design processes we can see that they are both very similar. As we can see, they both start out with the planning, they also both include drawing/designing a template, and then constructing and finally, testing. Although, computer scientists are also a lot more careful, and they pay a lot closer attention to the details. Of course, they need to be, and as we advance into robotics, we will need to be too.

How will VRC Robotics prepare you for a future career?

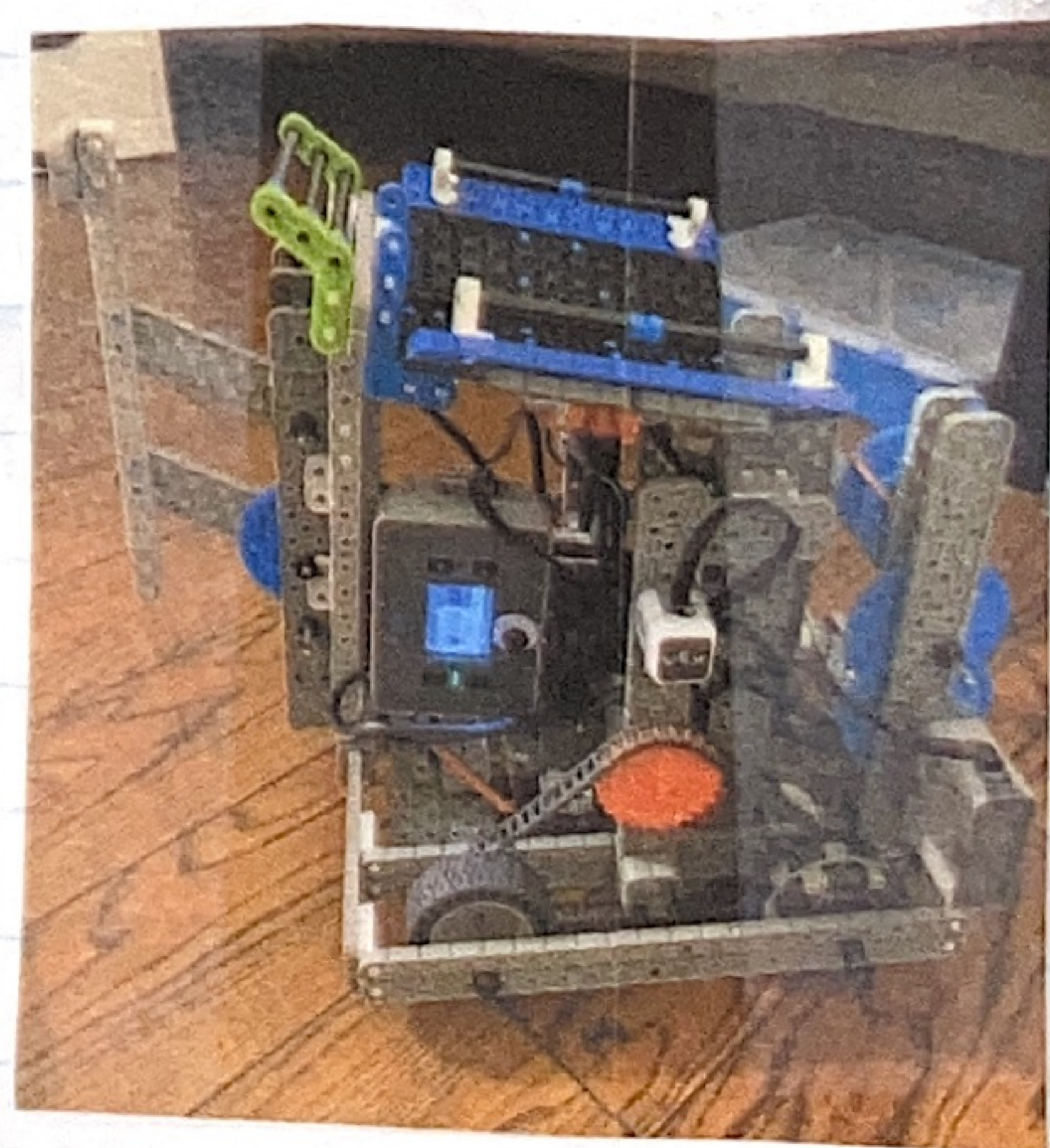
Since we still are at a young age, we may not be 100% sure what we want to do when we are older, and that's okay! I do know that I would like to choose a career path that has something to do with computers or engineering. Robotics includes both of these things, so I was really excited to get started. So far, robotics has taught me about how different pieces work together, different types of sensors, and much more. Another thing robotics has taught me is that it's okay if things don't turn out right the first time. We have rebuilt our robot twice, and we plan on doing it again. In all STEM careers, trial and error is a big part of success. No matter my future career, robotics has, and will continue to teach me things that will help later on in life.



This was the first robot we built, it could only do blue and yellow



For the second robot, we miscalculated the time we had to build it. However, this could do all the dispensers.



This is our current robot. It can do all the dispensers, plus shooting.