

VEX robotics teaches students basic engineering and programming skills. These simple skills that are taught to VEX students can come to really good use and give these students an opportunity to accomplish great achievement and have a successful career path. VEX robotics exposes students to possible careers such as a computer programmer or an aerospace engineer. VEX robotics is a perfect way to introduce little by little how STEM works so students could have successful careers in the future.

A computer programmer and a Vex robotics student have a few similarities and differences. A computer programmer uses skills to write and test codes that tell computers to accomplish tasks. Programmers use specific languages such as Java and C++. The engineers create program designs into instructions that the computer can follow. How this is similar to Vex robotics is when a vex student creates an autonomous program they have a set of instructions for the robot to follow to score points. Vex robotics students also use a specific language to communicate the set of instructions to the vortex. A difference between Vex robotics and a computer programmer is that in vex robotics only use one language to code into their robot which is VEXcode. While a computer programmer can use hundreds of languages to code their program. Regardless of their differences VEX robotics can use this to help students and expose them to learn to communicate with a computer through a specific language.

An aerospace engineer evaluates designs to see that the products meet engineering expectations. Aerospace engineers design mainly aircraft, spacecraft, satellites, and missiles. In addition, they create and test prototypes to make sure that they function according to design. Vex students are introduced to a process known as the “engineering design process”. This process is important to learn when becoming an aerospace engineer. This process is performed by defining the problem, conducting research, brainstorming and conceptualizing, creating a prototype, testing, and improvement. Understanding what an aerospace engineer does you can see that the engineering design process is a very important skill to know as it is used very frequently in that career. Introducing VEX robotics students to this process can help them get a step closer to not just aerospace engineering but to being successful in any STEM career.

To conclude what has been stated, VEX robotics is a good way to teach students engineering and programming skills that can open an opportunity in a successful STEM career path. A computer programmer and an aerospace engineer are just two careers that utilize these important skills. teaching kids at a young age can help them prepare for the more difficult stuff in the future and with VEX robotics it isn't only educational but it is also fun.

Resources:

<https://www.wgu.edu/career-guide/information-technology/computer-programming-career.html#close>

[What is Aerospace Engineering?.](#)