

Programming

Programming Your VEX Robot

To utilize the VEX Robotics Design system without Autonomous Programming or robot sensors, there is no extra software required. The system works fine “out of the box” for general robot operation. Minor changes to robot functionality (e.g. joystick scaling, motor reversals) can still be made via the transmitter menus or by placing jumpers in certain digital I/O ports. For more information please see the Control section of the Inventors Guide, as well as Appendices D & E.

To use the system with sensor interaction or custom control, custom programs are required. Furthermore, when programming a VEX Robot for autonomous competition, extra software files are required to ensure the proper transition between “autonomous mode” and “operator control mode” during each match.

There are several options available for programming the VEX Robotics Design System. These options give you the ability to modify the program contained inside the VEX Microcontroller. This allows you to configure your robot to behave in any situation it might encounter. In addition, these options support Autonomous Programming.

To learn more about the various programming options and to download the necessary software files, please visit the programming section of www.VEXrobotics.com.