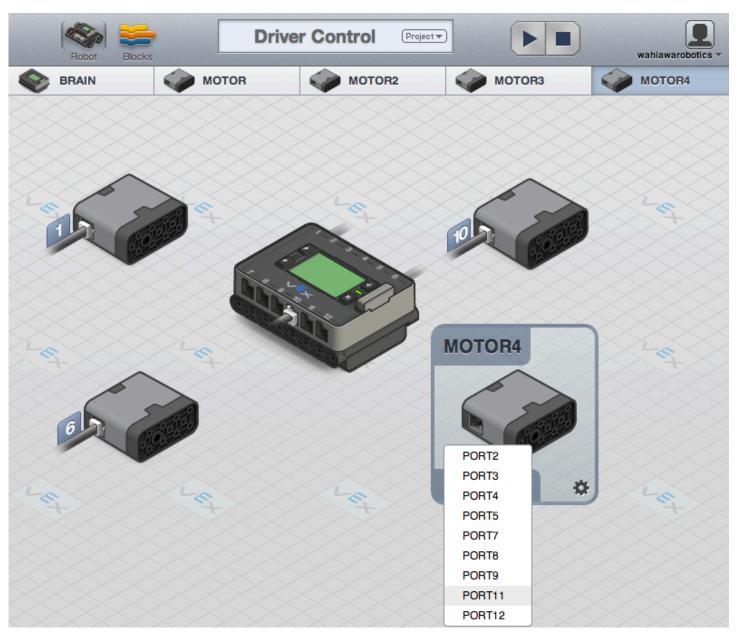
How to Program Driver Control (version 20131006)

Official instructions at: http://www.modkit.com/vex/guides/controller_actions

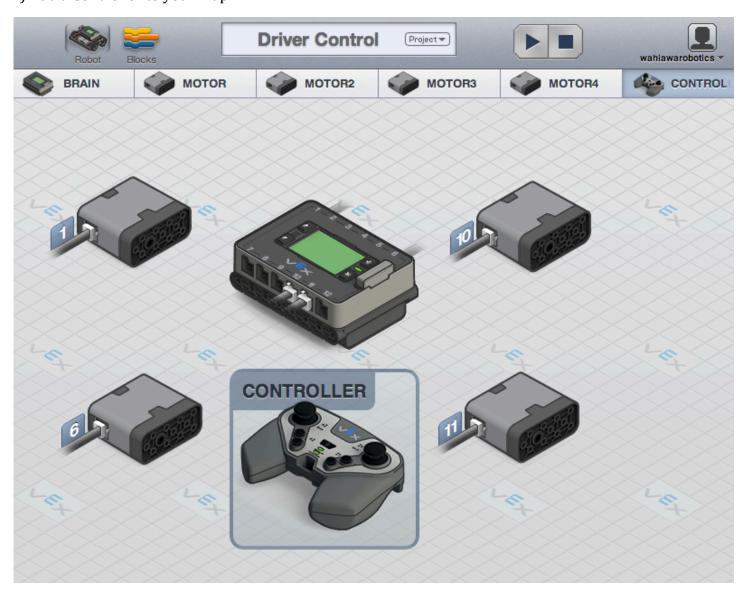
Part 1: Set up Robot

1) Set up your BRAIN and MOTORS on the ROBOT map.



- a) For this robot, I have four motors.
 - a. Motor 1 (Port 1) will control my Left Wheels.
 - b. Motor 2 (Port 6) will control my Right Wheels.
 - c. Motor 3 (Port 10) will control my Arm.
 - d. Motor 4 (Port 11) will control my Claw.
 - e. Although there are 12 Ports, VEXIQ competitions limit you to 6 motors.

2) Add a Controller to your map



Part II: Configure each Motor

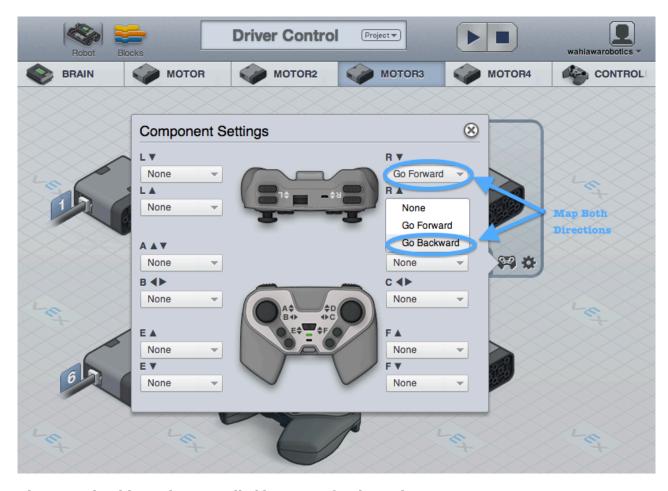
- 3) Configure each MOTOR to be controlled by the desired Channel / Button.
 - a) For the wheels, I programmed Motor 1 (Port 1, Left Wheels) to be controlled by Channel A and Motor 2 (Port 6, Right Wheels) to be controlled by Channel D.



- a. With this configuration, you drive it with two hands, tank-style.
- b. For Motor 2 (Port 6, Right Wheels) I had to Choose "Drive (Reversed)" for Channel D
 - i. This allows for true tank-style, with up on both A and D making the robot go forward.

Motor 1 (Port 1, Left Wheels)	Motor 6 (Port 6, Right Wheels)	Direction of Robot
↑	↑	† †
\downarrow	\downarrow	‡ ‡
\downarrow	lack	J
lack	\downarrow	Ŏ

b) For the arm and the claw, you have to match both the Up and Down direction of the Channel.



c) Each motor should now be controlled by a specific Channel.

Part III: Download and Test

- 4) You should be able to download the program and test out the motors.
 - a) Change the Channels and Orientation based on what the desired control should be like.
 - b) Just like with the Tank-Style, sometimes you have to reverse a Channel to make it work the way you like.
 - c) I have my students mark the MOTOR number with blue painter's tape to keep track.