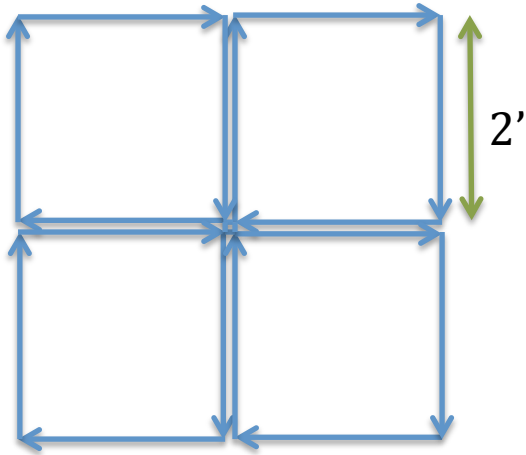


Square Driving Exercise

Objectives:

- To learn to use subVI's to make programming more modular, intuitive, and easier to understand.
- To assess and correct problems with accuracy in robot motor control.

For this exercise, you will program your robot to drive in the shape shown below. This will be accomplished by creating subVI's to do smaller segments of the task and then combining them for the whole task.



You should probably have a subVI that you does a line and a 90 degree turn. Then combine these into one that creates a box. Then use those to make the final program to create the square cloverleaf pattern as shown.

Once this is working. You should mark your starting place on the floor with some tape or a coin. Then see how accurately your robot ends up at its starting point after each square. Calibrate your VIs accordingly.