

## Arm and Gripper Programming Guide (LabVIEW™ for LEGO® MINDSTORMS®)

### Introduction:

In this guide, the Ranger Bot will be programmed to follow a line, pick up an object, and put it in a box. This guide is for use with the LabVIEW for LEGO® MINDSTORMS® programming language.

### Review:

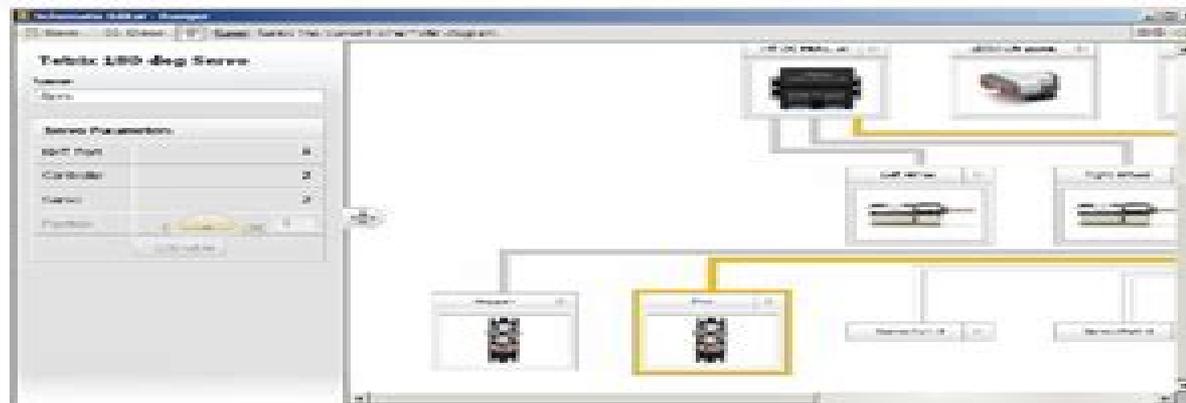
- To review the basic principles of connecting to the NXT Brick and configuring LabVIEW for LEGO MINDSTORMS for use with various sensors and motors, review the Programming Guides and Tutorial Videos from Lessons 2 and 3.
- To review the basic principles of programming in LabVIEW for LEGO MINDSTORMS, review the Programming Guides and Tutorial Videos from the Line Follower Programming Extension.
- These materials contain detailed information about how to use the Schematic Editor and how to create the structures, functions, constants, and wires that are presented in this guide.
- This program makes use of the **Screen Update SubVI** provided on the TETRIX® Getting Started Guide DVD. This function uses the NXT to display custom text as well as light and ultrasonic sensor readings.
- Use these steps to add the function to the program:
  - a. Within the block diagram, right-click to bring up the **Functions** palette and choose **Select a VI**.
  - b. Then navigate to where the **Screen Update SubVI** is saved.

**Note:** If the Screen Update SubVI has not been saved on the computer in a specific location already, download it from the DVD by navigating to the **Resources** tab and selecting the **Screen Update SubVI Program (LabVIEW for LEGO MINDSTORMS)** button.

  - c. Once the Screen Update SubVI has been located, open it and place it on the block diagram.

### Getting Started:

1. Create a new Ranger robot project and name it "Arm and Gripper."
2. Using the Schematic Editor, configure the robot to have two TETRIX 180° Servo Motors attached to Servo Ports 1 and 2. The first servo will be called Gripper, the second servo will be called Arm.



3. Create a new VI.

# Arm And Gripper Programming Guide Labview For Lego Mindstorms

**Arturo Cuomo**



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