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Mobile Manipulator

Platform National

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Develops a Leg-Wheel

Hybrid Mobile Robot

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FRC cRIO Project-

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Project (Labview

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~~the FIRST Robotics ...~~

This manual discusses how to develop a robotics program in

LabVIEW. Use this

manual to access information about

robotics programming concepts. This manual

also describes how to configure the

CompactRIO device and the Axis camera, as well as how to use the robot

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and dashboard projects.

Conventions The following conventions appear in this manual:

First

~~LabVIEW Robotics Programming Guide for the NI Robotics ...~~

LabVIEW is a graphical, commercial programming environment from National Instruments. It is quite often used in

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robotics,

instrumentation testing
and certain types of
industrial control

applications. Since it is
a data driven graphical
programming

environment, the
experience is quite a bit
different than

programming with code
driven textual
languages, with its own
advantages and

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disadvantages.

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Robotics Programming
with LabVIEW -

Robotics Programming
Study Guide. 9.

Robotics Programming
with LabVIEW. This
section of the LabVIEW
Robotics Programming
Study Guide primarily

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introduces the the
LabVIEW features
needed to develop Drive
Station Controlled
Framework . Several
import LabVIEW
features and design
patterns are also
discussed here. You
may want to review this
material and later refer
back to it as these
features are needed.

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~~9. Robotics~~

~~Programming with~~

~~LabVIEW □ Robotics ...~~

LabVIEW can be

viewed as a

programming language,

but it is also an

integrated development

environment (IDE).

When working with

National Instruments

controllers, such as the

sb-RIO that is on the

DaNI robots, the

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LabVIEW IDE makes the process of building programs and deploying them to run on external hardware a simple matter.

~~4. Why LabVIEW~~ ~~Robotics Programming~~ ~~Study Guide~~

Programming is the same, except only the predefined Actuators and Sensors on the

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simulated robot are supported. By exploring the pre-built LabVIEW Robotics Simulation projects, you can discover aspects of LabVIEW Robotics applications and learn how to start your own LabVIEW Robotics Simulation project.

~~LabVIEW Tutorial 10:
Robot Simulation - NI~~

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~~Community...~~

The LabVIEW Robotics
Module provides

hardware and software
development tools for

designing a robotic
control system. The

LabVIEW Robotics
Module is add-on

software for the

LabVIEW programming
environment. It delivers

an extensive robotics
library with built-in

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connectivity to robotic sensors and actuators, foundational algorithms for intelligent operation and robust perception, and motion functions for making your robot or vehicle move.

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Electrical Basics.

Getting Started; Getting

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Robot; WPILib
Programming Basics.

WPILib Overview; FRC
LabVIEW

Programming. Installing
LabVIEW for FRC

(LabVIEW only)

Installing the FRC

Game Tools; Creating
Robot Programs;

LabVIEW Resources;

Actuators; Sensors;

CAN Devices; Basic

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Programming; Support
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The LabVIEW Robotics
Module is a software

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package that allows you to develop robotics applications using LabVIEW. The

Robotics Module

provides robotics-related algorithms,

drivers that allow you to control certain sensors,

hardware and software setup wizards, and

example VIs that demonstrate robotics

concepts. The

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LabVIEW Robotics
Starter Kit gives you
access to the products
you need to program the
robot in your Starter Kit
package.

~~LabVIEW 2018~~
~~Robotics Module~~
~~Readme - National~~
~~Instruments~~

Create New LabVIEW
Robotics Project Select
project type Robotics

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Robotics
Starter Kit CompactRIO

Reconfigurable

Embedded System

Single-Board RIO

Embedded System

Windows Platform The

LabVIEW Robotics

Starter Kit includes a

ready-to-run hardware

platform based on the

NI Single-Board RIO

embedded control

hardware and LabVIEW

Robotics software. use

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this kit to quickly and easily prototype an autonomous mobile robotic system.

First

~~LabVIEW for Robotics Starter Kit Tutorial~~

1. Create a new FTC Arm & Gripper robot project and name it TeleOp Programming.
2. Next, create a new remote control file by selecting Remote

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Control in the Robot

Files menu, clicking
New, and giving the
remote control

configuration a name.

Configure the Joystick
to Drive the Robot and
Move the Servos: 3.

~~Programming Guide~~

~~(LabVIEW for LEGO~~

~~MINDSTORMS~~

The LabVIEW Robotics
Starter Kit, also called

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the DaNI Robot To write a program for a Nationals Instruments DaNI Robot, we first need to determine the robot's IP address. To allow the robots to operate in different networks, they are configured to get their IP address via DHCP.

~~5. Getting Started with
the DaNI Robot~~

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The FRC Robot

Simulator is a

component of the

LabVIEW programming

environment that allows

you to operate a

predefined robot in a

simulated environment

to test code and/or

Driver Station functions.

It utilizes a LabVIEW

code project as the robot

code and communicates

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with the FRC Driver

Station for robot control

and the FRC Default

Dashboard for robot

feedback.

Competition

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~~Component Overview~~

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Robotics Programming

for Beginners Image

recognition and more

recently natural

language processing are

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among the core

problems robotics

scientists must solve in

order to design robots

that mimic the human

behavior.

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