piRover Builds with K2

Linux Investigation Rev 1.0

Overview:

The purpose of this lesson is to provide you with an introduction to Linux. The instructor will use an online tutorial to present an overview of Linux and discuss why Linux is such an important tool when working in robotics. The amount of Linux used in this course is limited, and the instructor will review only the first sections of the online tutorial. Students are encouraged to dive deeper by completing additional modules contained in the tutorial.

Prerequisites:

Prior to beginning the instruction provided in this lesson you must have completed the following:

1. Introduction to Raspberry Pi

Performance Outcomes:

1. Interact with the Linux command line interface
2. Navigate the Linux file system
3. Run applications and programs at the command line
4. Edit files at the command line.

Resources:

1. Linux for Robotics
2. Basics of CLI

Materials:

3. None

Directions:

1. The instructor will use the Robot Ignite Academy site to present Linux concepts and demonstrate command line usage including file system navigation. See the Linux for Robotics link in the Resources section.

2. Use the Basics of CLI link and other Web resources to review basic Linux commands including the following.

    a. cd – change directory
    b. pwd – print working directory
    c. ls – list
    d. mkdir – make directory

e. mv – move
f. cp – copy
g. rm - remove

3. Optional: Repeat Unit 2 of the Linux for Robotics tutorial. Continue to investigate advanced Linux utilities and applications presented in Units 3 and 4.

Assessment:

1. None. This is an investigation only. You will use basic Linux commands at the CLI prompt once we have our Raspberry Pi connected and configured.