Raspbian and Raspberry Pi Modding/Hacking

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- Installing external libraries with arduino-cli on Raspberry PI (via terminal) [3]

As seen in my previous post (Connecting Raspberry PI Zero W to Arduino only via terminal), we can easily control an Arduino board from Raspbian Buster Lite with the help of arduino-cli. However, if you want to add more functionalities to your Arduino board you will need to import external libraries.

In this post, we’ll see how to import libraries from terminal.

- Reading a serial USB port from Raspbian Buster Lite with python (from terminal) [4]

Raspberry PI can be used to interface real world from its GPIO as, for example, by Controlling a stepper motor. Furthermore, you can also use Raspberry PI to dialog with some devices (like Arduino) by using serial USB port.

- Weather Station with Arduino, Blynk and Raspbian Buster Lite on Raspberry PI Zero W [5]

One of most common projects with Arduino is creating a Weather Station able to send temperature and humidity measurements in real time.

Adding Raspberry PI to this project enables users to add complex command and fuctions
which you can setup on triggers received from sensors. Furthermore, you can also use your Raspberry PI to reconfigure Arduino to react on specific events.

This post will guide you in configuring Raspberry PI and Arduino (with DHT11 sensor) to send data in your Blynk app and warn on thresholds overcoming.

- **How To Install CentOS in Raspberry PI** [6]

  For people wanting to test different Linux distros in our credit card sized computer, CentOS is a valid alternative enabling you to access a different repository from Debian one.

  In this guide, I?m going to show you how to install CentOS in your Raspberry PI.

- **How to add 2 factor authentication (2FA) in Raspbian Buster Lite with Google Authenticator for ssh login** [7]

  Debian based systems can easily integrate Google Authenticator to enhance security in your ssh login.

- **Emulating MVS Mainframe on Raspberry PI** [8]

  This guide will use an amazing MVS package available from wotho.ethz.ch, which includes also a User Manual explaining how to use this MVS emulation.