ROS

ROS is an open-source Operating System for Robot. ROS provides libraries and tools to help software developers create robot applications. It provides hardware abstraction, device drivers, libraries, visualizers, message-passing, package management, and more.

Updated: 2021-07-21 21:18:58   #ros

ROS - Quick Tutorial for Beginners

This guide is a short version of ROS Tutorial for Beginner which lists useful terms, packages, and commands for quickly understand about the basic of ROS.

Updated: 2021-07-21 21:18:58   #ros
                                                                                                #tutorial

Byobu - use multiple windows in terminal

Byobu is a light, powerful, text-based window manager based on GNU Screen. Using Byobu, you can quickly create and move between different windows over a single SSH connection or TTY terminal, monitor dozens of important statistics about your system,...

Updated: 2021-07-21 20:42:01   #linux

Tweaks to get better performance

Ubuntu, by default, provides cool desktop environment with some default settings which may consume much resource in the system. Tips here are to speed up Ubuntu, and they are valid for most versions of Ubuntu and can also be applied in Linux Mint and...

Updated: 2021-07-21 13:22:01   #tweaks

Linux

Tips for using Linux

Updated: 2021-07-14 15:31:11

Install Samba on Ubuntu

Samba is a free and open-source re-implementation of the SMB/CIFS network file sharing protocol that allows end users to access files, printers, and other shared resources.

Updated: 2021-07-21 20:42:01   #linux #sharing #samba

RTOS

Updated: 2021-07-08 22:14:48

RTOS Overview

Using RTOS on MCU is method to deal with concurrent tasks which need to be handled in real-time without delay. A task is a piece of code that can be scheduled by OS scheduler and dedicated for a specific functionality. Tasks can have different...

Updated: 2021-07-09 23:43:44

RTOS SysTick and Delay

SysTick is mainly used for delay function in non-RTOS firmware, and is used as the interrupt for RTOS scheduler. If STM32 HAL utilizes another timer as its time base, RTOS has its own right to initialize and handler SysTick. The Delay function also...

Updated: 2021-07-08 22:14:48   #arm #stm32 #rtos #systick

I2C - SPI

The Inter-Integrated Circuit (I2C) is a multi-slave, half-duplex, single-ended 8-bit oriented serial bus specification, which uses only two wires to interconnect a given number of slave devices to a master. The Serial Peripheral Interface (SPI) is a...

Updated: 2021-07-06 14:41:43   #arm #stm32 #i2c #spi

SSD1306 OLED Controller

SSD1306 0.96" I2C OLED display is very popular as it is used in many project to display system status as it has multiple communication protocols and consumes very low power. It mainly exposes I2C interface or SPI interface. SH1106 is another...

Updated: 2021-07-06 14:39:33

#oled

#ssd1306

Analog to Digital Converter

There are many types of analog devices connected to microcontrollers. These analog device generate a variable voltage in a meaningful range. That voltage level is read and converted to a number through an Analog to Digital Converter.

Updated: 2021-06-29 18:23:57

#arm #stm32 #adc
#joystick