

Tema: Arduino y Comunicación Serial con Visual Basic

Objetivos de Aprendizaje

1. Utilizar el puerto USB como dispositivo de comunicación externa.
2. Realizar programas de Visual Basic que se comuniquen con Arduino.
3. Realizar Sketches de Arduino que reciban órdenes y envíen datos a la PC.
4. Realizar aplicaciones de manejo de hardware externo combinando las plataformas.

Materiales y Equipo

No	Cantidad	Descripción
1	1	Una computadora con sistema operativo Windows y con el programa Arduino IDE instalado
2	1	Cable USB (tipo A hacia tipo B)
3	1	Tarjeta Arduino UNO R2 o R3
4	4	Resistencias de 4.7k Ω
5	4	LEDs
6	1	Potenciómetro de 5K Ω
7	1	Breadboard
8	1	Pinza
9	1	Cortadora
10	varios	Cables UTP

Introducción Teórica

Visual Basic y Puerto Serie

La interfaz serie asincrónica es el principal dispositivo de comunicación de sistema a sistema. Asincrónica significa que no hay presente una señal de sincronización o de reloj. Cada carácter está empujado entre señales de inicio y parada. Un solo bit 0, denominado bit de inicio, precede a cada carácter para indicar al sistema que los siguientes 8 bits constituyen un byte de datos. Uno o dos bits en alto siguen al carácter para señalar que dicho carácter ha sido enviado.

Tramite en una transmisión asincrónica:

Manual De Comunicaci N Serial

Marco Cascella



Manual De Comunicaci N Serial:

Habilidades de comunicaci3n empresarial. Manual te3rico Jos3 Carlos Torres Mart3n,2015-03-06 El presente volumen incluye los contenidos fundamentales para la impartici3n del programa docente Habilidades de comunicaci3n empresarial El material se ha dise1ado para servir de apoyo en cualquier actividad destinada al aprendizaje de sus competencias profesionales La estructura del manual es la siguiente Objetivos generales y espec3ficos Desarrollo te rico del temario Resumen por tema Glosario de t rminos Bibliograf a

Instalacion de Lineas y Equipos de Comunicacion Guia de Tecnicas y Procedimientos para la Verificacion y Puesta a Punto 'Rub3n Iglesias Mouteira',2004-12-19 Muchas veces hemos o do que las profesiones t cnicas son complicadas de aprender o m s dif ciles de realizar que otras m s centradas por ejemplo en labores administrativas o comerciales En este manual te presentamos un material did ctico con el que podr s conocer en profundidad las claves de una profesi3n t cnica con futuro Instalador de Equipos y Sistemas de Comunicaci3n Perteneciente a la familia profesional de Montaje e Instalaci3n la labor de estos profesionales se centra en instalar configurar y poner a punto sistemas audiovisuales y de comunicaci3n y proceso de datos sobre soportes de l neas el ctricas radioel ctricas o de fibra ptica de acuerdo con planos y esquemas cumpliendo las normas y est ndares nacionales e internacionales Con este manual el lector podr adquirir los conocimientos necesarios para instalar l neas y equipos de comunicaci3n realizando la verificaci3n y puesta a punto utilizando las t cnicas y procedimientos adecuados en las condiciones de calidad y seguridad establecidas Ideaspropias Editorial siguiendo las directrices marcadas pro el Real decreto 943 1997 que regula la ocupaci3n de Instalador de Equipos y Sistemas de Comunicaci3n pone este manual a disposici3n de todos aquellos que realicen esta labor o deseen hacerlo en el futuro Este texto formativo podr contribuir a que el alumno obtenga el certificado de profesionalidad de esta ocupaci3n

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