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Moore's Lobby Podcast

From the Ground Up—Zoox Turns a Corner with New AV and Sensor System Designs

0:00 / 0:00

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        - **Vol I. - Direct Current**

          Basic concepts of electricity, direct current (DC), Ohm's Law, electrical safety are more.

        - **Vol II. - Alternating Current**

          Learn the fundamentals of alternating current (AC).

        - **Vol III. - Semiconductors**

          In-depth understanding of semiconductors and their importance.

        - **Vol IV. - Digital**

          Learn about boolean logic in conjunction with digital information.

        - **Vol V. - Reference**

References for situations ranging from DC circuit equations, unit conversion, and troubleshooting techniques.

- **Vol VI. - Experiments**

  Experiments and guided examples of electronic theory.

- Video Lectures & Tutorials
  - **Electronic Systems**

    Representative systems, system notation, connectivity, and system level troubleshooting.

  - **Basic Electronics and Units of Measure**

    The fundamental concepts, terms, and units of measure common to all electronics.

  - **Basic Components and Technical Notation**

    Learn about basic electronic components and technical notation.

  - **Circuits**

    Understanding the application and principles of circuits.

  - **Circuit Troubleshooting**

    Strategies to diagnose malfunctioning systems and identify specific defects in circuits.

  - **Alternating Current**

    The Importance of alternating current in electrical and electronic systems.

- Worksheets
  - **Basic Electricity**

    Voltage, current, resistance and other basic concepts of electricity.

  - **DC Electric Circuits**

    The unidirectional flow of an electric charge and its role in DC circuits.

  - **AC Electric Circuits**

    The fundamental relationship between voltage, current and resistance in AC Circuits.

  - **Network Analysis Techniques**

    Analysis of complex working procedures of AC and DC circuits.

- **Discrete Semiconductor Devices and Circuits**

  Diodes, transistors, rectifiers, thyristors and more.

- **Analog Integrated Circuits**

  Circuits dealing with signals free to vary from zero to full power supply voltage.

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  - Designing Industrial Connectivity Solutions for the Smart Factory

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  - Omron's IoT Module: Advancements in Weather Sensing and Data Transfer

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  - Test & Measurement in Quantum Computing

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arduino control 3 phase inverter

arduino control 3 phase inverter

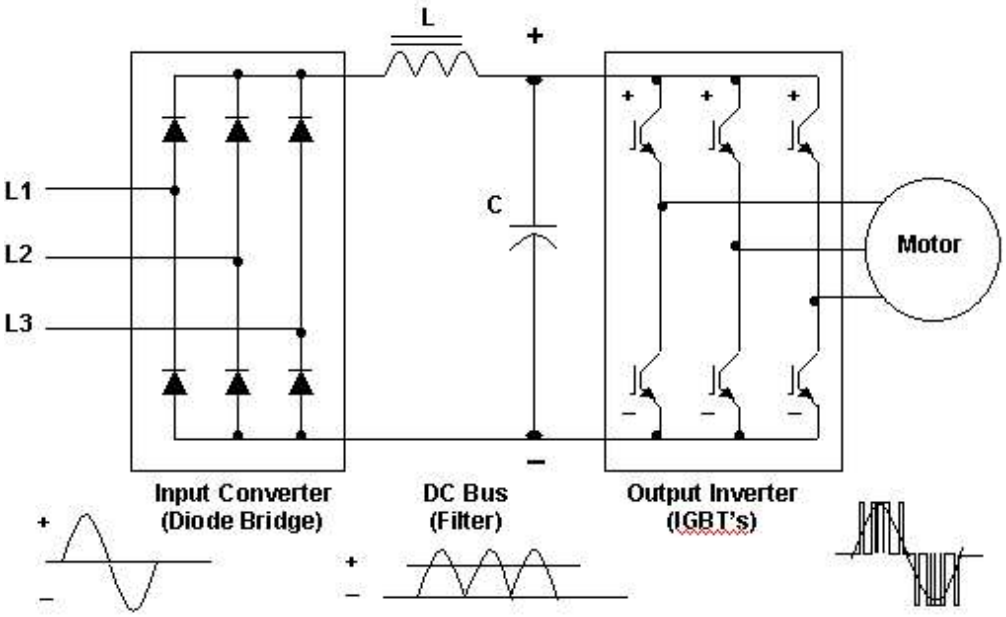
HaMZaBeST · Apr 26, 2014

H

Thread Starter
HaMZaBeST
Joined Dec 13, 2013 3
Apr 26, 2014

#1

i want to generate 3 PWM 120 degrees out of phase with arduino mega2560 because i want to control six pluse igbt to control 3 phase motor (220v/380v // f=50hz // rpm = 1430) and display the frequence in LCD .0



i know i want using timer1/timer2

i found this code but i have some problems with output frequence

can you help me to fix the code for my arduino mega 2560 and thx.

Rich (BB code):

```
phase_accum += tword_m; // soft DDS, phase accu with 32 bits
icnt = phase_accum >> 24; // use upper 8 bits for phase accu as frequency i
OCR2A = pgm_read_byte_near(sine256 + icnt); // read value fron ROM sine tab
OCR1A = pgm_read_byte_near(sine256 + (uint8_t)(icnt + OFFSET_1));
OCR1B = pgm_read_byte_near(sine256 + (uint8_t)(icnt + OFFSET_2));
if (icnt1++ == 125) // increment variable c4ms every 4 milliseconds
{
c4ms++;
icnt1 = 0;
}
```

```
121   cbi(PORTD, TEST_PIN); // reset PORTD,TEST_PIN
122   }
```

> jaydip

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GetDeviceInfo

Joined Jun 7, 2009 2,110

Apr 26, 2014

#2

check the atmel site, they have code snippets for this very thing.

> Silas de Almeida Baldez

Like Reply

H

Thread Starter
HaMZaBeST
Joined Dec 13, 2013 3
Apr 26, 2014

#3

> GetDeviceInfo said:
>
> check the atmel site, they have code snippets for this very thing.

i download the doc of atmega2560 i read but how can i fixe the value of frenquence in 0 to 50HZ ?

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Thread Starter
HaMZaBeST
Joined Dec 13, 2013 3
May 1, 2014

#4

can you give some help

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sirch2
Joined Jan 21, 2013 1,029
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#5

May be better to ask this on the Arduino Forum

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