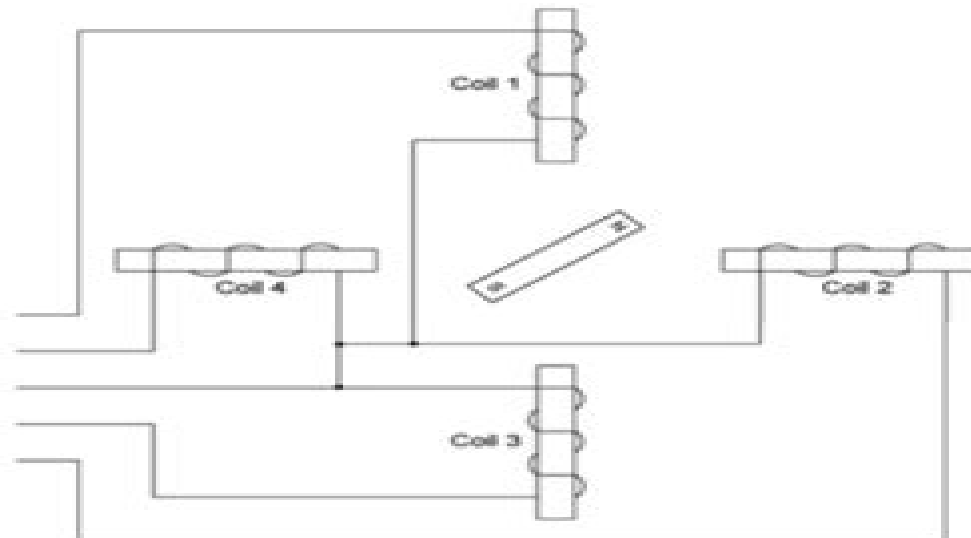


Stepper Motor Control with a PIC Microcontroller Programmed in PicBasic Pro Cornerstone Electronics Technology II and Robotics

- **Administration:**
 - Prayer
- **PicBasic Pro Programs Used in This Lesson:**
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<http://www.cornerstonerobotics.org/picbasic.php>
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http://www.cornerstonerobotics.org/code/step_mot1.pdf
 - Lab 1: step_mot1 as .pdf file:
http://www.cornerstonerobotics.org/code/step_mot_hi_torque.pdf
- **Stepper Motors:**
 - For applications where precise measuring of a motors' rotor position is critical, a stepper motor is the best choice. Stepper motors operate differently from other motors; rather than voltage being applied and the rotor spinning smoothly, stepper motors turn on a series of electrical pulses to the motor's windings. Each pulse rotates the rotor by a discrete amount or "step", hence the name "stepper motor".
 - We will use a PIC microcontroller to activate drive transistors in the right order to rotate the stepper motor.
- **How a Stepper Motor Works:**
 - See: <http://www.imagesco.com/articles/picstepper/02.html> or
 - <http://www.solarbotics.net/library/pdf/lib/pdf/motorbas.pdf>
- **Stepping Modes:**
 - Simplified Unipolar Stepper Motor Connections:



Picbasic Pro Step Motor Controller

A Gutmann



Picbasic Pro Step Motor Contoller:

PIC Basic Projects Dogan Ibrahim, 2011-02-24 Covering the PIC BASIC and PIC BASIC PRO compilers PIC Basic Projects provides an easy to use toolkit for developing applications with PIC BASIC Numerous simple projects give clear and concrete examples of how PIC BASIC can be used to develop electronics applications while larger and more advanced projects describe program operation in detail and give useful insights into developing more involved microcontroller applications Including new and dynamic models of the PIC microcontroller such as the PIC16F627 PIC16F628 PIC16F629 and PIC12F627 PIC Basic Projects is a thoroughly practical hands on introduction to PIC BASIC for the hobbyist student and electronics design engineer Packed with simple and advanced projects which show how to program a variety of interesting electronic applications using PIC BASIC Covers the new and powerful PIC16F627 16F628 PIC16F629 and the PIC12F627 models

PIC Microcontrollers: Know It All Lucio Di Jasio, Tim Wilmshurst, Dogan Ibrahim, John Morton, Martin P. Bates, Jack Smith, David W Smith, Chuck Hellebuyck, 2007-07-30 The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one stop reference for engineers involved in markets from communications to embedded systems and everywhere in between PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject This material ranges from the basics to more advanced topics There is also a very strong project basis to this learning The average embedded engineer working with this microcontroller will be able to have any question answered by this compilation He she will also be able to work through real life problems via the projects contained in the book The Newnes Know It All Series presentation of theory hard fact and project based direction will be a continual aid in helping the engineer to innovate in the workplace

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Hood Over 900 pages of practical hands on content in one book Huge market as of November 2006 Microchip Technology Inc a leading provider of microcontroller and analog semiconductors produced its 5 BILLIONth PIC microcontroller Several points of view giving the reader a complete 360 of this microcontroller *Intelligent Mechatronic Systems* Rochdi Merzouki, Arun Kumar Samantaray, Pushparaj Mani Pathak, Belkacem Ould Bouamama, 2012-11-27 Acting as a support resource for practitioners and professionals looking to advance their understanding of complex mechatronic systems *Intelligent Mechatronic Systems* explains their design and recent developments from first principles to practical applications Detailed descriptions of the mathematical models of complex mechatronic systems developed from fundamental physical relationships are built on to develop innovative solutions with particular emphasis on physical model based control strategies Following a concurrent engineering approach supported by industrial case studies and drawing on the practical experience of the authors *Intelligent Mechatronic Systems* covers range of topic and includes An explanation of a common graphical tool for integrated design and its uses from modeling and simulation to the control synthesis Introductions to key concepts such as different means of achieving fault tolerance robust overwhelming control and force and impedance control Dedicated chapters for advanced topics such as multibody dynamics and micro electromechanical systems vehicle mechatronic systems robot kinematics and dynamics space robotics and intelligent transportation systems Detailed discussion of cooperative environments and reconfigurable systems *Intelligent Mechatronic Systems* provides control electrical and mechanical engineers and researchers in industrial automation with a means to design practical functional and safe intelligent systems

PIC Microcontroller Project Book John Iovine, 2000 A true beginner s guide ot the popular PIC microcontroller including 12 projects to build **Circadian Rhythms** Michael Young, 2005-04-04 The critically acclaimed laboratory standard *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike The series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Circadian Rhythms* contains an extensive discussion of genetic and biochemical aspects of circadian rhythms In this volume organisms such as neurospora bacteria drosophila arabidopsis and mammals are covered Included are methods in genetics transcriptional and post transcriptional regulation tissue culture and populations are discussed in detail One of the most highly respected publications in the field of biochemistry since 1955 Frequently consulted and praised by researchers and reviewers alike Truly an essential publication for anyone in any field of the life sciences [Programming and Customizing the PIC Microcontroller](#) Myke Predko, 2007-05-22 MASTER PIC MICROCONTROLLER TECHNOLOGY AND ADD POWER TO YOUR NEXT PROJECT Tap into the latest advancements in PIC technology with the fully revamped Third Edition of McGraw Hill s *Programming and Customizing the PIC Microcontroller* Long known as the subject s definitive text this indispensable volume comes packed with more than 600 illustrations and provides comprehensive easy to understand coverage of the PIC

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Robotics Mr. Rohit Manglik,2023-05-23 This book offers a detailed exploration of robotics focusing on key concepts methodologies and practical implementations relevant to modern engineering and technology practices

[PIC Robotics: A Beginner's Guide to Robotics Projects Using the PIC Micro](#) John Iovine,2001-12-21 Here s everything the robotics hobbyist needs to harness the power of the PICMicro MCU In this heavily illustrated resource author John Iovine provides plans and complete parts lists for 11 easy to build robots each with a PICMicro brain The expertly written coverage of the PIC Basic Computer makes programming a snap and lots of fun

Electronics World ,2007

Programming and Customizing PICmicro (R) Microcontrollers Myke Predko,2000-12-25 This book is a fully updated and revised compendium of PIC programming information Comprehensive coverage of the PICMicros hardware architecture and software schemes will complement the host of experiments and projects making this a true Learn as you go tutorial New sections on basic electronics and basic programming have been added for less sophisticated users along with 10 new projects and 20 new experiments New pedagogical features have also been added such as Programmers Tips and Hardware Fast FAQs Key Features Printed Circuit Board for a PICMicro programmer included with the book This programmer will have the capability to program all the PICMicros used by the application Twice as many projects including a PICMicro based Webserver Twenty

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Electronics Now ,1999 Amphibionics Karl Williams,2003-04-08 This work provides the hobbyist with detailed mechanical electronic and PIC microcontroller knowledge needed to build and program a snake frog turtle and alligator robots It focuses on the construction of each robot in detail and then explores the world of slithering jumping swimming and walking robots and the artificial intelligence needed with these platforms The Technology Teacher ,2001

KONVANSIYONEL OFSET BASKI MAKINELERINDE BILGISAYAR DESTEKLI MÜREKKEP BESLEME KONTROLÜ MUSTAFA KISA,2023-03-31 Programming PIC Microcontrollers with PICBASIC Chuck Hellebuyck,2003 Introduction Fundamentals Of The PIC Microcontroller And PICBASIC The PICBASIC Compiler The PICBASIC Pro Compiler Programming The 16F84 With PICBASIC Advanced Projects And Applications **Practical and Experimental Robotics** Ferat Sahin,Pushkin Kachroo,2017-12-19 Taking a completely hands on approach using cheap and easily available robotics kits Practical and Experimental Robotics provides a detailed exploration of the construction theory and experiments for different types of robots With topics ranging from basic stamp microcontrollers to biped and propeller based robots the text contains laboratory experiments examples with solutions and case studies The authors begin with a review of the essential elements of electronics and mechanics They describe the basic mechanical construction and electrical control of the robot then give at least one example of how to operate the robot using microcontrollers or software The book includes a reference chapter on Basic Stamp Microcontollers with example code pieces and a chapter completely devoted to PC interfacing Each chapter begins with the fundamentals then moves on to advanced topics thus building a foundation for learning from the ground up Building a bridge between technicians who have hands on experience and engineers with a deeper insight into the workings the book covers a range of machines from arm wheel and leg robots to flying robots and robotic submarines and boats Unlike most books in this field this one offers a complete set of topics from electronics mechanics and computer interface and programming making it an independent source for knowledge and understanding of robotics **Circuit Cellar Ink** ,1998

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 - Chapter 4: Picbasic Pro Step Motor Contoller in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Picbasic Pro Step Motor Contoller. The final chapter will summarize the key points that have been discussed throughout the book.
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