



Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics)

By Karl Williams

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- * Features step-by-step plans for constructing six, inexpensive "head to toe" humanoid robot projects
- * All projects controlled by a PIC microcontroller and use easily acquired parts
- * Projects include: constructing a teleoperated robotic arm and hand, a human voice recognition system robot control, building a robot head and face, and more

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Editorial Review

From the Back Cover

GREAT 'DROIDS, INDEED!

This unique guide to sophisticated robotics projects brings humanoid robot construction home to the hobbyist. Written by a well-known figure in the robotics community, *Build Your Own Humanoid Robots* provides step-by-step directions for 6 exciting projects, each costing less than \$300. Together, they form the essential ingredients for making your own humanoid robot.

Build Your Own Humanoid Robots & Amazing and Affordable Projects

Serious enough to interest robot professionals, the plans inside offer serious fun to hobbyists. They give you the power to breathe life into a mechanical being with amazingly human qualities, and feature all the instructions you need for programming the inexpensive chips that give your humanoid brains and sensitivity.

6 Astounding Projects:

- * **Robotic Arm, Wrist, and Hand.** Build a versatile robotic arm system to give your humanoid the ability to manipulate objects/ A PIC microcontroller provides motor control and feedback.
- * **Personal Computer Interface.** Learn how to interface the robot arm or any other robotics project to a personal computer for complete control and feedback.
- * **Visual Basic Control Software.** Develop flexible bidirectional communications software to control the robot arm or other projects from your personal computer.
- * **Voice Recognition Control.** Make your robotic arm and walking robot obey your spoken commands with this completely embedded control system that can also be used for many other applications.
- * **Expressive, Speaking Face.** Enable your robot to show happiness, surprise, excitement, anger, and more, as it speaks any words you transmit electronically.
- * **Bipedal Walking Robot.** It's your own amazing small scale, fully autonomous robot! Learn about sensors, analog-to-digital converters, DC motor control, microcontrollers, feedback, and control systems.

Also included is the background information regarding construction materials, test equipment, printed circuit board fabrication, microcontrollers, and programming and design considerations needed to create the humanoid robot projects.

About the Author

Karl Williams is an independent robotics researcher, electronics guru, and software developer. He is the author of the popular robotics guide *Insectronics: Build Your Own Six Legged Walking Robot* and the follow-up *Amphibionics: Build Your Own Biologically Inspired Robots*, both from TAB/McGraw-Hill. A resident of Ontario, Canada, he has written for the magazines *Nuts and Volts*, *SERVO*, and *Conformity*. Winner of an IBM award for his design of a computer-controlled robotic arm, he hosts a robotics and electronics Website. He is with AGFA HealthCare Informatics, a leading medical imaging software company.

Users Review

From reader reviews:

Jimmy Stone:

Do you have favorite book? In case you have, what is your favorite's book? Guide is very important thing for us to be aware of everything in the world. Each publication has different aim as well as goal; it means that book has different type. Some people feel enjoy to spend their time and energy to read a book. They are really reading whatever they consider because their hobby is actually reading a book. What about the person who don't like studying a book? Sometime, man or woman feel need book if they found difficult problem as well as exercise. Well, probably you should have this Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics).

Floyd Eichner:

Playing with family in the park, coming to see the ocean world or hanging out with pals is thing that usually you might have done when you have spare time, and then why you don't try issue that really opposite from that. 1 activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you have been ride on and with addition associated with. Even you love Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics), you can enjoy both. It is very good combination right, you still need to miss it? What kind of hang-out type is it? Oh can occur its mind hangout guys. What? Still don't understand it, oh come on its referred to as reading friends.

John Hawkins:

In this period globalization it is important to someone to acquire information. The information will make anyone to understand the condition of the world. The health of the world makes the information easier to share. You can find a lot of referrals to get information example: internet, newspaper, book, and soon. You can view that now, a lot of publisher this print many kinds of book. The actual book that recommended to you personally is Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) this reserve consist a lot of the information in the condition of this world now. This kind of book was represented how does the world has grown up. The words styles that writer require to explain it is easy to understand. The particular writer made some exploration when he makes this book. Here is why this book acceptable all of you.

Michael Hollinger:

As a pupil exactly feel bored in order to reading. If their teacher expected them to go to the library or to make summary for some reserve, they are complained. Just tiny students that has reading's soul or real their passion. They just do what the professor want, like asked to the library. They go to generally there but nothing reading seriously. Any students feel that reading through is not important, boring in addition to can't see colorful pics on there. Yeah, it is to become complicated. Book is very important for you personally. As we know that on this time, many ways to get whatever we really wish for. Likewise word says, ways to reach Chinese's country. Therefore this Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects

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