



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

By Karl Williams

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## Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) By Karl Williams

- \* 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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**Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics)** By Karl Williams **Bibliography**

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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**

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#### **Lauren Barnett:**

This Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) book is simply not ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book is usually information inside this publication incredible fresh, you will get details which is getting deeper an individual read a lot of information you will get. That Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) without we know teach the one who looking at it become critical in contemplating and analyzing. Don't possibly be worry Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) can bring whenever you are and not make your carrier space or bookshelves' become full because you can have it in the lovely laptop even telephone. This Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) having good arrangement in word along with layout, so you will not truly feel uninterested in reading.

#### **Carol Pyles:**

People live in this new day of lifestyle always try and and must have the time or they will get lot of stress from both day to day life and work. So , whenever we ask do people have time, we will say absolutely indeed. People is human not really a robot. Then we consult again, what kind of activity do you have when the spare time coming to you actually of course your answer will probably unlimited right. Then do you try this one, reading textbooks. It can be your alternative within spending your spare time, the particular book you have read is usually Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics).

#### **April Miller:**

As a university student exactly feel bored for you to reading. If their teacher inquired them to go to the library or make summary for some book, they are complained. Just small students that has reading's internal or real their pastime. They just do what the professor want, like asked to the library. They go to right now there but nothing reading very seriously. Any students feel that looking at is not important, boring and also can't see colorful images on there. Yeah, it is being complicated. Book is very important for you personally. As we know that on this period, many ways to get whatever we really wish for. Likewise word says, many ways to reach Chinese's country. Therefore this Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics) can make you really feel more interested to read.

#### **Pamelia Thompson:**

What is your hobby? Have you heard that question when you got students? We believe that that question was given by teacher with their students. Many kinds of hobby, Everyone has different hobby. So you know that little person including reading or as reading through become their hobby. You must know that reading is very important in addition to book as to be the issue. Book is important thing to increase you knowledge, except your current teacher or lecturer. You get good news or update about something by book. A substantial

number of sorts of books that can you choose to adopt be your object. One of them are these claims Build Your Own Humanoid Robots: 6 Amazing and Affordable Projects (TAB Electronics).

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