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Androids: Build Your Own Lifelike Robots (Electronics)

By Bryan Bergeron, Thomas Talbot



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Create the next generation of AUTONOMOUS ANDROIDS!

Construct self-governing 'droids that display physiologically correct behaviors. Co-written by experts in the fields of robotics, artificial intelligence, and medicine, *Androids: Build Your Own Lifelike Robots* features low-cost DIY projects that translate human physiology into cybernetics. Teach your creations to maneuver with an arsenal of behaviors, respond to stimuli, talk, and listen. This practical, inventive guide even shows how to realistically simulate emotion and aging in your robots.

- Understand cybernetic and robotics principles
- Work with programmable microcontrollers
- Choose and wire sensors, actuators, and servos
- Program dazzling reflex arcs and behavior loops
- Enable your automatons to speak and hear
- Build beating hearts and limbs with flowing veins
- Create breathing patterns that respond to triggers
- Mimic humanoid feelings and facial expressions
- Use prototyping kits and testing devices



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Bibliography

- Sales Rank: #1190231 in Books
- Brand: Brand: McGraw-Hill/TAB Electronics
- Published on: 2013-09-17
- Released on: 2013-09-17
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x .60" w x 8.60" l, 1.25 pounds
- Binding: Paperback
- 336 pages

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Editorial Review

About the Author

Bryan Bergeron is author of two dozen books, 500+ magazine articles, holds several patents in the areas of human simulation and embedded systems, and is Editor-in-Chief of *SERVO* and *Nuts & Volts* magazines. He has designed and built human simulators for academia, the military, and commercial markets. Bryan is the author of *Teardowns: Learn How Electronics Work by Taking Them Apart*.

Thomas B. Talbot, Chief Scientist of the US ARMY TATRC Armed Forces Simulation Institute for Medicine, founded the medical simulation research & development program at the US Defense Department. He is the creator of several android systems used for training medics and healthcare professionals. The author of numerous articles and book chapters, Dr. Talbot is currently creating artificial intelligence-driven virtual humans and virtual reality psychotherapy and physical rehabilitation.

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