

Build Your Own Quadcopter: Power Up Your Designs with the Parallax Elev-8

By Donald Norris

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Build Your Own Quadcopter: Power Up Your Designs with the Parallax Elev-8 By Donald Norris

Build a custom multirotor aircraft!

Build and customize radio-controlled quadcopters that take off, land, hover, and soar. *Build Your Own Quadcopter: Power Up Your Designs with the Parallax Elev-8* features step-by-step assembly plans and experiments that will have you launching fully functioning quadcopters in no time. Discover how to connect Elev-8 components, program the microcontroller, use GPS, and safely fly your quadcopter. This fun, do-it-yourself guide fuels your creativity with ideas for radical enhancements, including return-to-home functionality, formation flying, and even artificial intelligence!

- Understand the principles that govern how quadcopters fly
- Explore the parts included in your Parallax Elev-8 kit
- Follow illustrated instructions and assemble a basic 'copter
- Connect the Parallax chip to a PC and write Spin and C programs
- Build radio-controlled systems that minimize interference
- Add GPS and track your aircraft through Google Earth
- Beam flight information to smartphones with WiFi and XBee technology
- Mount cameras and stream real-time video back to the ground
- Train to safely operate a quadcopter using flight simulation software

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- Sales Rank: #872889 in eBooks
- Published on: 2014-05-06
- Released on: 2014-05-06
- Format: Kindle eBook

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Editorial Review

About the Author

Donald Norris is a quadcopter enthusiast and a private pilot. He is also an electronics engineer with an advanced degree in Production Management. Donald is retired from civilian government service with the US Navy specializing in acoustics and digital signal processing. He has more than 13 years' experience as a professional software developer using programming languages including C, C#, C++, Python and Java. Don also has five years' experience as a certified IT security consultant.

Users Review

From reader reviews:

Martha Skaggs:

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Andrew Howe:

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Leigh Harris:

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