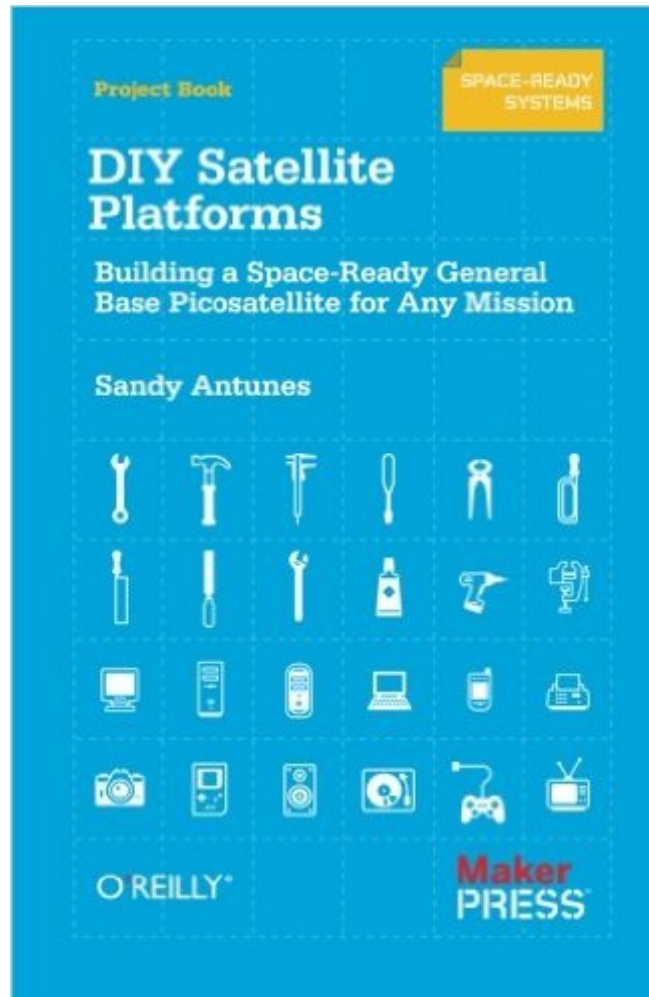


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# DIY Satellite Platforms: Building A Space-Ready General Base Picosatellite For Any Mission



## Synopsis

Want to build your own satellite and launch it into space? It's easier than you may think. The first in a series of four books, this do-it-yourself guide shows you the essential steps needed to design a base picosatellite platform—complete with a solar-powered computer-controlled assembly—tough enough to withstand a rocket launch and survive in orbit for three months. Whether you want to conduct scientific experiments, run engineering tests, or present an orbital art project, you'll select basic components such as an antenna, radio transmitter, solar cells, battery, power bus, processor, sensors, and an extremely small picosatellite chassis. This entertaining series takes you through the entire process—from planning to launch. Prototype and fabricate printed circuit boards to handle your payload. Choose a prefab satellite kit, complete with solar cells, power system, and on-board computer. Calculate your power budget—how much you need vs. what the solar cells collect. Select between the Arduino or BasicX-24 onboard processors, and determine how to use the radio transmitter and sensors. Learn your launch options, including the providers and cost required. Use milestones to keep your project schedule in motion.

## Book Information

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## Customer Reviews

This book is more of a diary of Antunes' experience working on his own project, as opposed to a technical manual that would be more familiar to a professional engineer. That said, if you are an engineer and you are interested in this subject, you are likely in a position to be able to fill in the

gaps easily from the myriad pointers provided. What I found most enjoyable was the narrative of someone's spirit of adventure and creativity; Antunes has a goal, and he does what is necessary to make it happen. A lot of exploration, trial and error, good-enough-now-let's-move-on-to-the-next-problem, beg/borrow/steal other useful ideas, and all the ups and downs that are part of a real labor of love.

This is an engaging and readable book about an exciting hobby written by someone with unimpeachable space science credentials. So why a two star review? I gather from the mismatch between this book's description and its contents that the author is trying to sell these books in order to finance the construction and launch of his satellite. To put the point more clearly: the author of the book on DIY satellites has not actually launched his satellite yet. For me this was very disappointing. I would gladly have paid double the asking price for a what-worked-what-didn't analysis of even a single mission, but without that it feels like a somewhat crass attempt to keep cash flowing through the process.

This short book is radiating with the joy of creating something that can actually go into space. It's obviously written with the maker approach, don't expect the MIT course on satellite engineering for \$3.57. But to feel what it takes to build a working satellite in your basement, and start to think that space exploration may really be a home project - complete with costs, suppliers and schedules - this is a good starting point.

Very good introduction to a popular project. Grass-roots satellite project that even highschool students can pursue. Space still attracts students, and here is a hands-on project they can contribute to and learn from.

It's not a well-organized guide book which shows you every essential steps. It just likes someone who sharing his/her experience on a hobby forum. However, I do get some keywords to start my own researching on the web.

on one hand I'd like to see more, more detail, more data, more etc. but given lack of material and the newness of even doing this for real I have to give the book 5 stars. This is all great material and for anyone really building their own satellite I think should read. There are not many other books for the hobbiest space engineer out there and this is certainly one of the must reads. It will help you get

started, help you center your self in the field and allow to move forward with research and building your pico satellite.

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