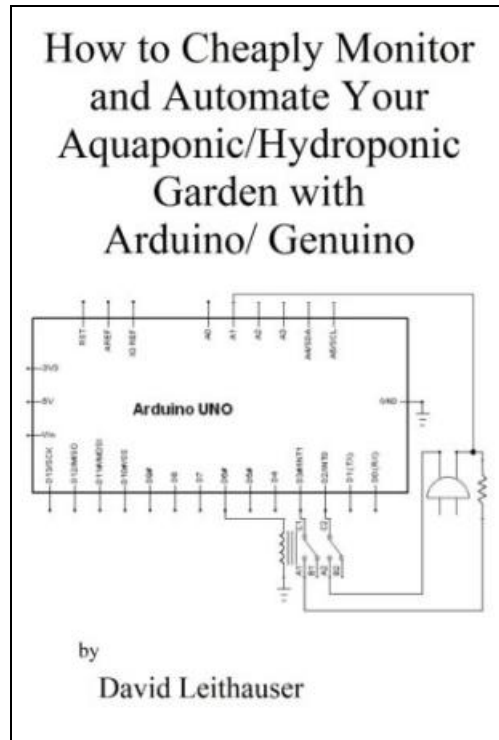


## How to Cheaply Monitor and Automate Your AquaponicHydroponic Garden with Arduin



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## HOW TO CHEAPLY MONITOR AND AUTOMATE YOUR AQUAPONIC HYDROPONIC GARDEN WITH ARDUIN



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CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 226 pages. Dimensions: 9.0in. x 6.0in. x 0.5in. Aquaponic and hydroponic systems are growing in popularity. They provide a way to grow your own food, for yourself or for profit. However, they can be very time consuming, and not responding to a problem in time can result in the loss of your fish or plants. If you can monitor your systems better, or even have an automated system that can correct some problems, you can make your system more secure and prosperous. Arduinos are small computers on a circuit board that are very suitable for automating things. Unlike computers that have a keyboard, mouse, and display and are designed to input and output information, Arduinos are designed to observe and control physical objects. You can connect sensors to the Arduino inputs and relays or other devices to the outputs. You can then program the Arduino to perform various output actions based on the input. In this book, I explain ways that you can use Arduinos to monitor or automate your aquaponic or hydroponic garden. By monitor, I mean using it as a test instrument to report on conditions like water level, water and air temperature, pH, total dissolved solids, turbidity (cloudiness), etc. It is possible to sound alarms based on this information, display this information directly on a small screen connected to the Arduino, or even display information on a Web page. By automate, I mean actually act on the information directly. For example, it can monitor water levels and raise or lower water levels as necessary, monitor air or water temperature and turn on heaters or cooling systems, pump the water through a filter if it gets too cloudy, add chemicals to correct imbalances, and so on....



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