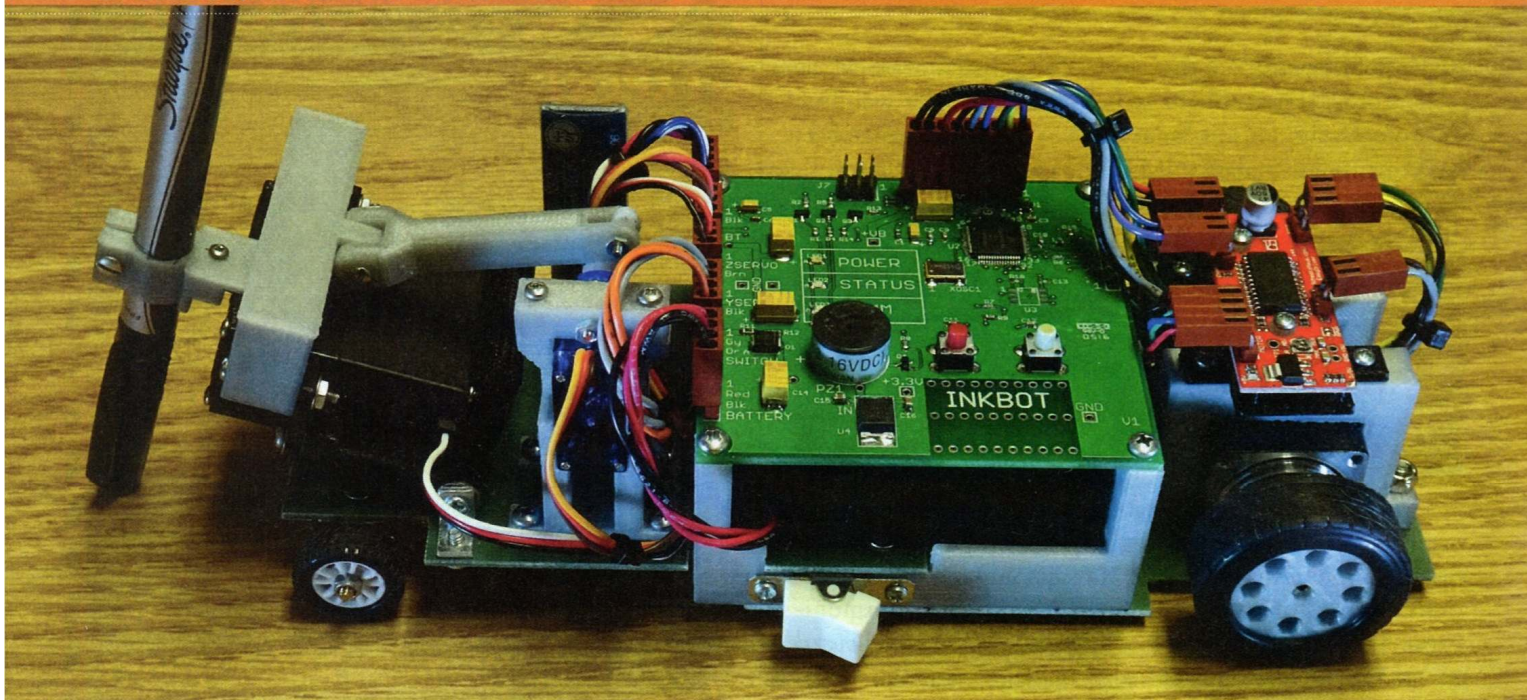


# GADGET FREAK

The Gadget Freak® Files Case #281



## InkBot: Building Your Own Robot That Writes

**SEEING ALL OF THE YOUTUBE** videos of robotic arms that write on dry-erase boards Kerry Erendson knew he had to make one of these his next project. Since he's really into cars he thought, what better approach than a car-like robot that writes on paper as it travels? This project is about 50% 3D-printing/mechanical and about 50% electronics/software. He's been an electronic design engineer for 35 years, but only got into 3D printing about a year ago. He loves projects that combine both.

Erendson's basic concept is that the X-axis pen motion will be the vehicle's motion forward or backward. The Y-axis travel will be provided by a linear servo motor. The Z-axis is the pen height, driven by the small blue servo motor through the 3D-printed arm with a clevis at each end: Down = tip touching the paper to write; Up = tip lifted slightly from the paper; Lift = pen lifted into a park position which allows room for the pen cap to be put back on. **DN**

Are you a Gadget Freak? If you have a DIY project you want us to see and think others want to build, tell us about it at [www.DesignNews.com/GF](http://www.DesignNews.com/GF). If your project is featured on DesignNews.com, we will send you a check for \$500, and you will be entered into the Gadget Freak of the Year contest for a chance to win \$6,000, courtesy of Allied Electronics! Happy building!

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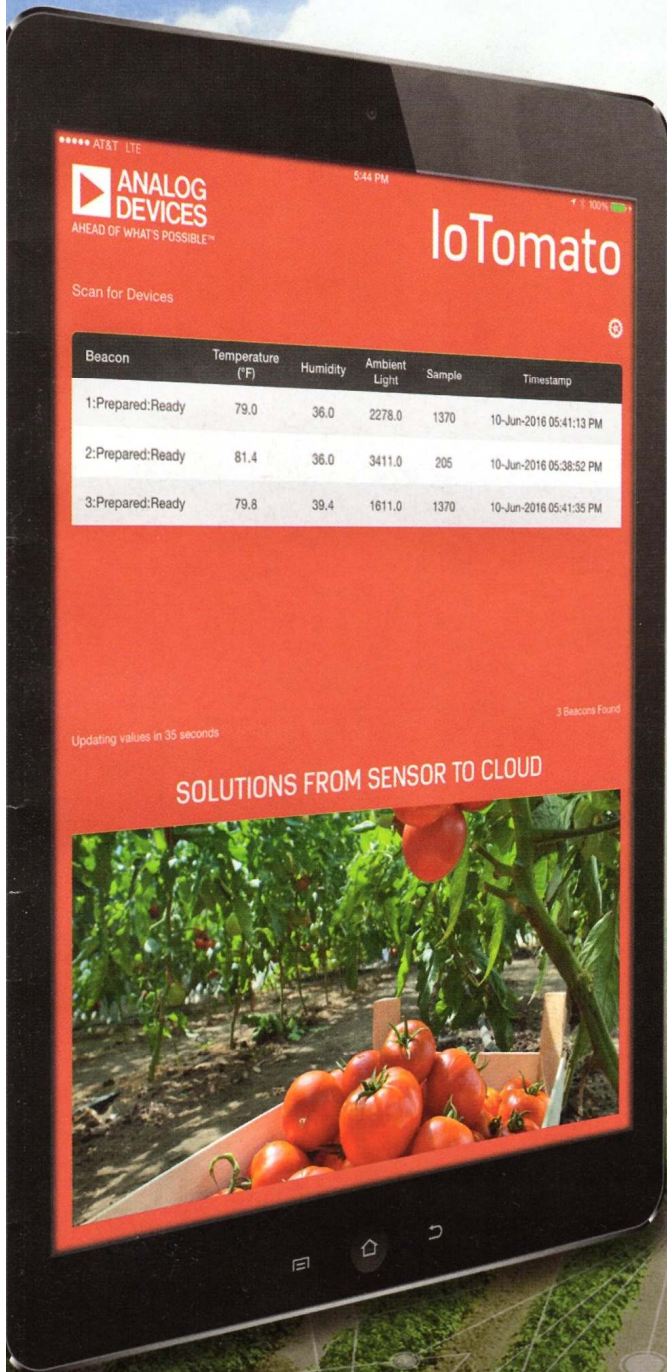


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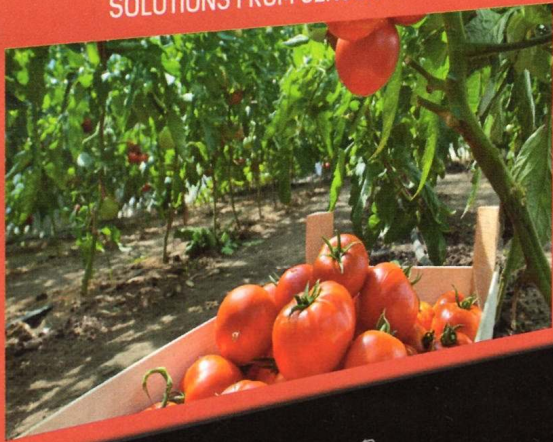
Scan for Devices

Beacon	Temperature (°F)	Humidity	Ambient Light	Sample	Timestamp
1:Prepared:Ready	79.0	36.0	2278.0	1370	10-Jun-2016 05:41:13 PM
2:Prepared:Ready	81.4	36.0	3411.0	205	10-Jun-2016 05:38:52 PM
3:Prepared:Ready	79.8	39.4	1611.0	1370	10-Jun-2016 05:41:35 PM

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3 Beacons Found

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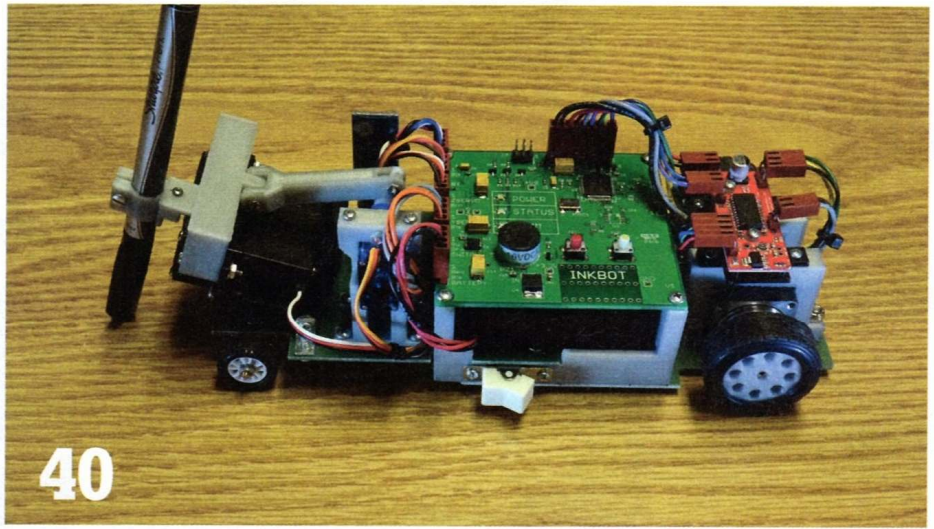
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## Supplement

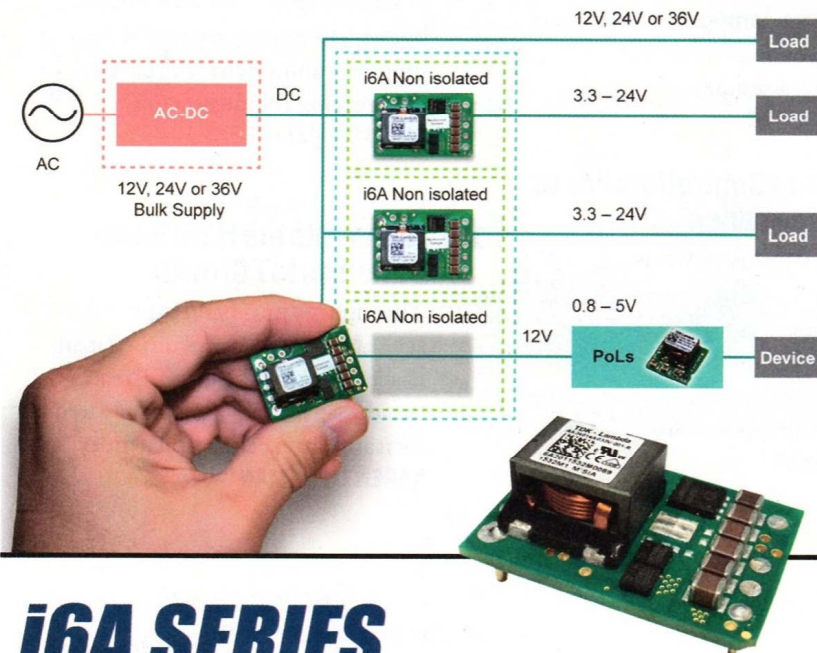
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