2017

Tektronix®

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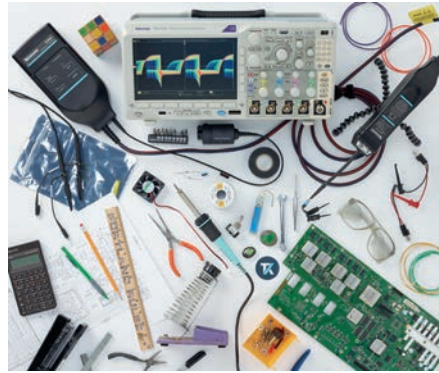*** European toll-free number. If not accessible, call:** +41 52 675 3777
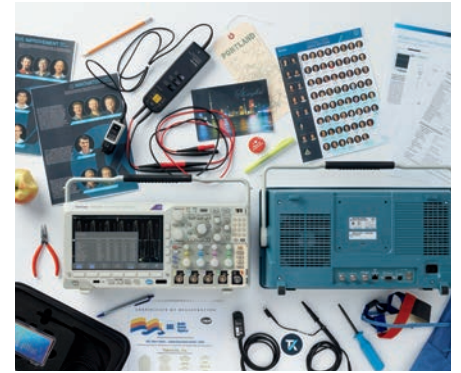
Find more valuable resources at TEK.COM/MDO
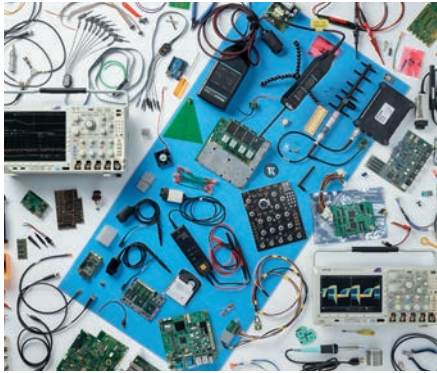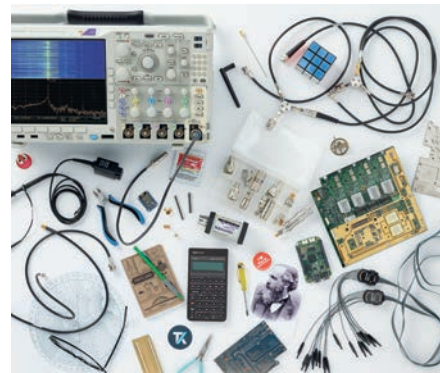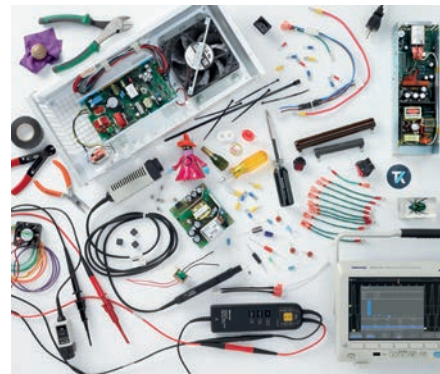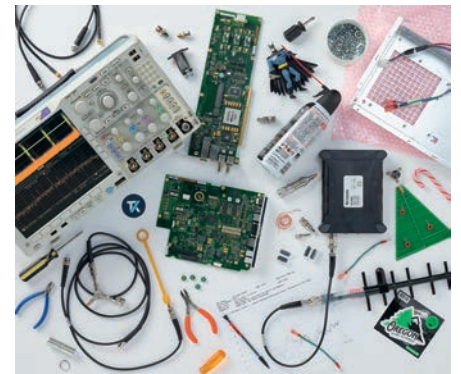
JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

JULY

AUGUST
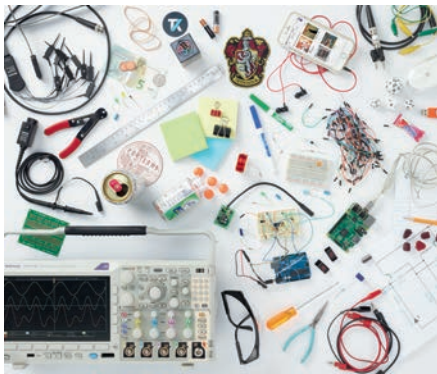
SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

2016 YEAR AT A GLANCE

01 • JANUARY

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02 • FEBRUARY

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29						

03 • MARCH

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04 • APRIL

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05 • MAY

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06 • JUNE

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07 • JULY

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08 • AUGUST

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09 • SEPTEMBER

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10 • OCTOBER

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11 • NOVEMBER

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12 • DECEMBER

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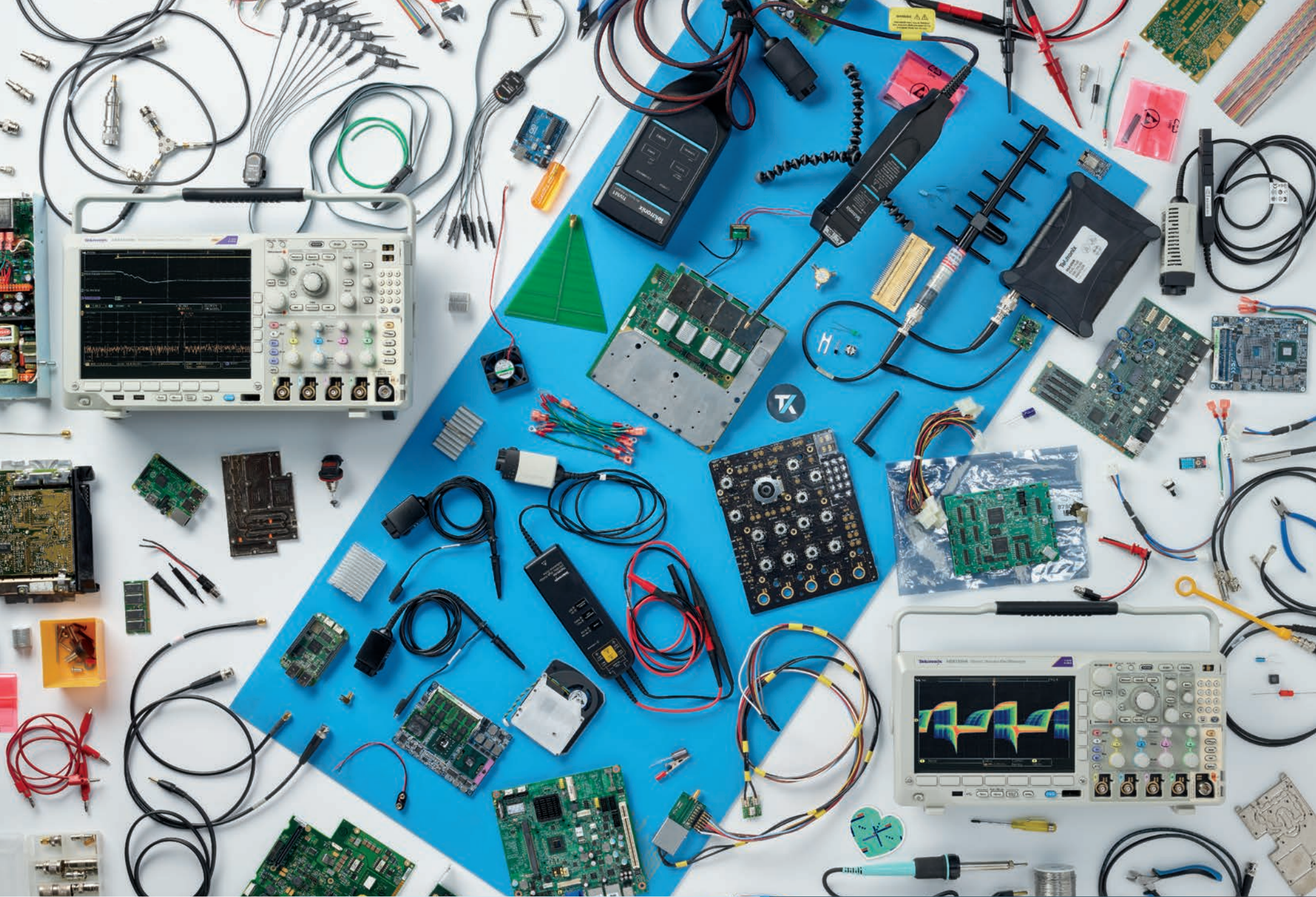
Let's have a little fun!

Debugging complex systems requires a sharp eye and acute attention to detail. Sometimes just finding a part or cable adapter on your desk can be a daunting challenge! For the next 12 months we will play a game and challenge you to find 6 items hidden in plain sight. For extra credit look for one reference to Portland, Oregon and our new round TK logo in every scene!

Locate these objects:

- [ ] 16 channel logic probe
- [ ] 2 log antennas
- [ ] Soldering iron
- [ ] 6.2 GHz USB spectrum analyzer
- [ ] Near field probe
- [ ] IsoVu Isolated Measurement System

JANUARY 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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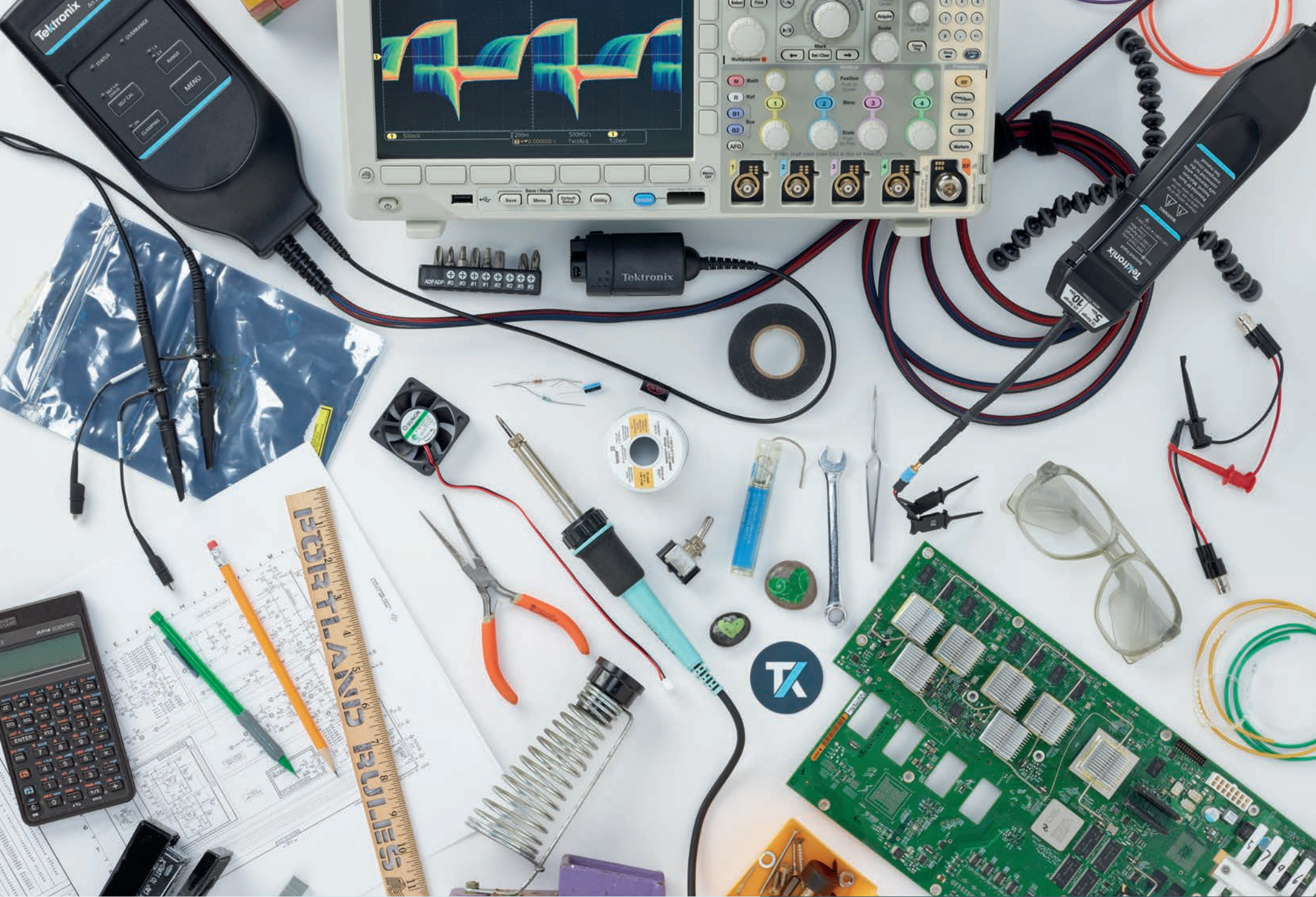
All about analog awesomeness

When you get right down to it, all signals are analog. So a trusty scope with tight specs, flexible triggering, and a great display is essential. The MDO3000 and MDO4000C use digital phosphor technology. Waveforms are intensity-graded – frequently occurring signals appear bright, and transients show up dim to help you quickly tell the difference.

Locate these objects:

- [ ] Electrolytic capacitator
- [ ] Schematic (for a Tek 2465B)
- [ ] IsoVu Isolated Measurement System
- [ ] Tweezers
- [ ] BNC test clip adaptor
- [ ] Solder spool

FEBRUARY 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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Speed through automotive design

Automotive electronic control units measure and process analog sensor signals, digital signals, CAN, CAN FD, FlexRay, LIN buses and many more. The MDO4000C and MDO3000 Series Oscilloscopes are great for analog measurements, have up to 16 digital channels, support automotive bus decoding and can be outfitted with a function generator output to help you bring up your ECU in record time.

Locate these objects:

- [ ] Ear plugs
- [ ] Antistatic wrist strap
- [ ] Safety glasses
- [ ] Lamp/bulb
- [ ] Magnet
- [ ] Electronic Control Unit (ECU)

MARCH 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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A passion for reliability and innovation

With our 70 years of scope design, rigorous manufacturing processes and proven track record of support, you can be confident that our instruments, services and people will be there when you need them. The MD03000 and MD04000C are backed by a 3-year warranty. Both the instruments and included probes are 3rd-party-certified for compliance with safety standards.

Locate these objects:

- [ ] Antistatic heel strap
- [ ] 3rd party certification on a probe
- [ ] Guaranteed specs
- [ ] Medium voltage differential probe
- [ ] 74 award winning Tek engineers
- [ ] Low voltage differential probe

APRIL 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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Disassembling the 6-in-1 scope

The MDO3000 and MDO4000C include up to six built-in instruments, each with exceptional performance. Every MDO starts with an oscilloscope featuring powerful triggering, search and analysis. They are the only scopes available with integrated spectrum analyzer hardware. Add an Arbitrary/Function Generator, a protocol analyzer or a DMM to suit your application now -- or upgrade later as your needs evolve.
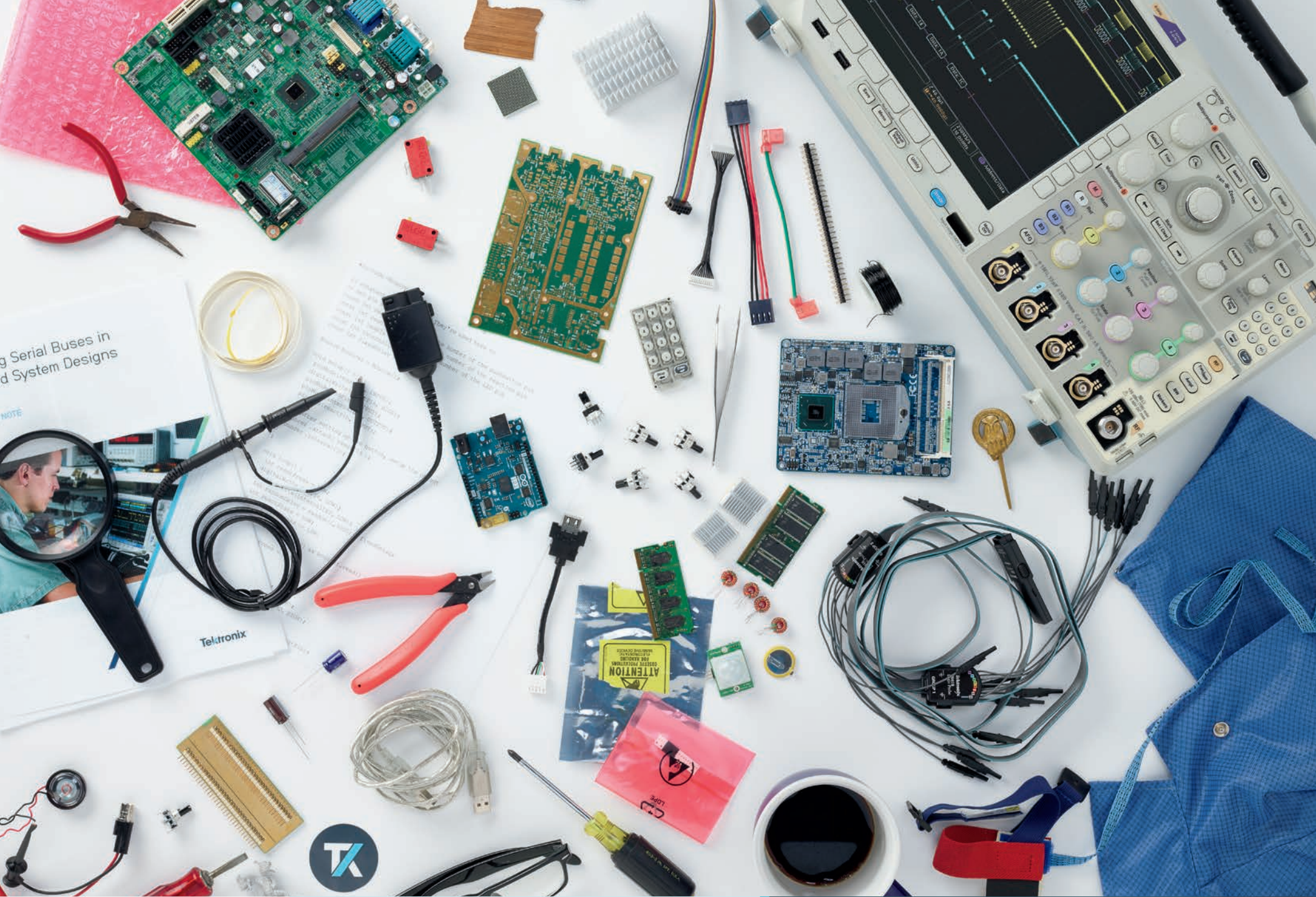
Locate these objects:

- [ ] Main Digitizer & Processor board
- [ ] 1 GHz low-capacitance probe
- [ ] Front panel control board
- [ ] 8 probe marker rings
- [ ] Analog board with built in spectrum analyzer
- [ ] Logic Probe accessory kit

MAY 2017

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Hunt bugs, not instruments

When you're innovating, there's no time to track down a logic analyzer or protocol analyzer to find elusive mixed-signal problems. Luckily, the highly-integrated MDO3000 and MDO4000C are designed to give you a broad, coherent view of the analog signals, digital signals, serial protocols, and RF signals that make up today's complex embedded systems.

Locate these objects:

- [ ] Coin cell battery
- [ ] 2 memory modules
- [ ] 3 heat sinks
- [ ] 4 common mode chokes
- [ ] 7 rotary encoders
- [ ] Speaker

JUNE 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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## The first scope with a built-in spectrum analyzer

The Mixed Domain Oscilloscope (MDO) is the first instrument to integrate a mixed signal oscilloscope and a modern spectrum analyzer. Dedicated spectrum analyzer hardware provides frequency range up to 6 GHz and ultra-wide capture bandwidth of more than 1 GHz. The MDO4000C lets you easily synchronize time and frequency domain measurements to speed EMI and wireless system troubleshooting.

Locate these objects:

- [ ] James Maxwell's beard
- [ ] Smith chart
- [ ] USB RF power meter
- [ ] Analog board with built in spectrum analyzer
- [ ] Monopole antenna
- [ ] ESP 8266 Wi-Fi Board

JULY 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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$$\sqrt{-1} \ 2^3 \ \sum \ \pi$$

and it was delicious
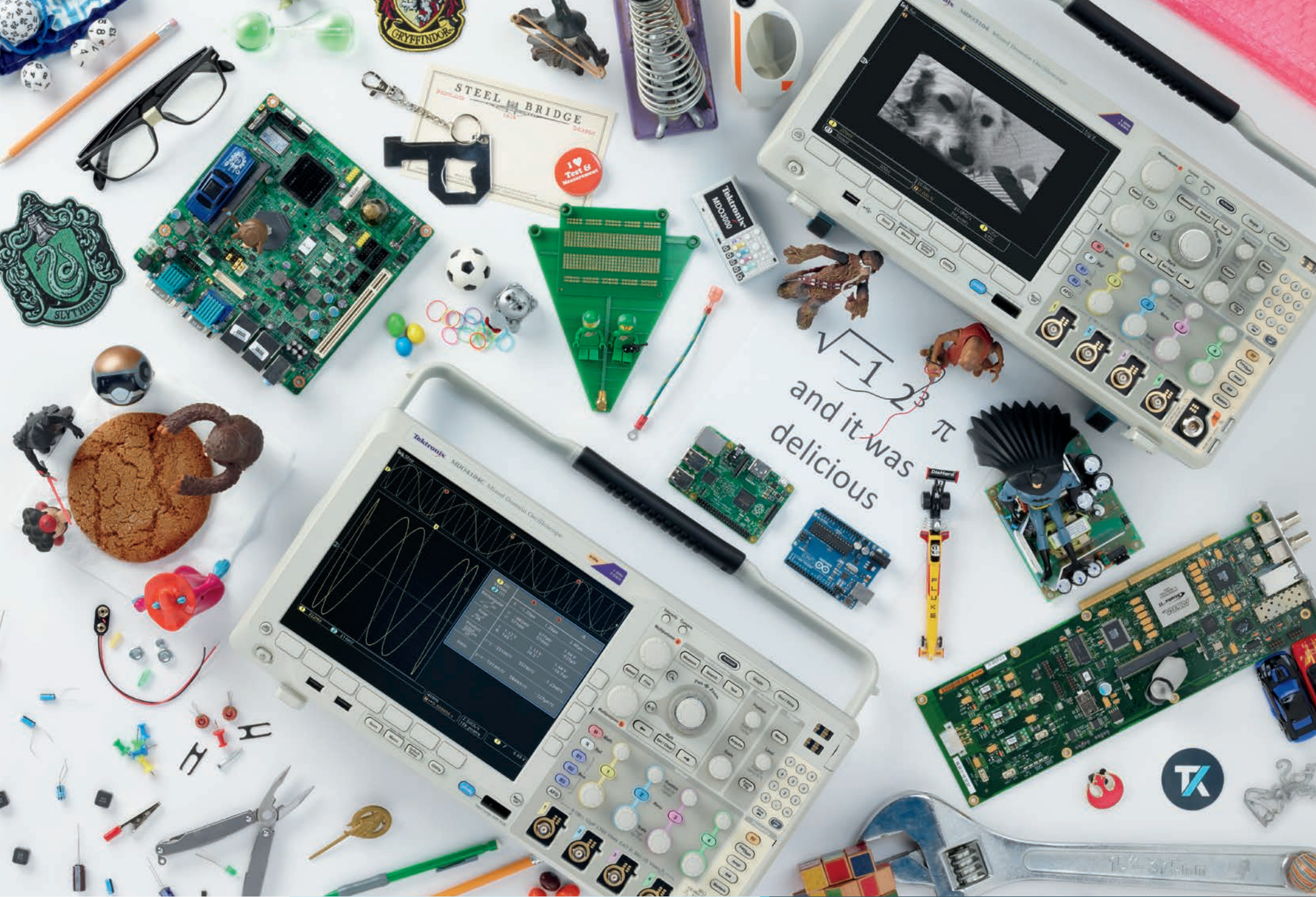
Engineering fun?

Some say engineers have strange ideas of what's fun, but they're just jealous and probably not great at math. The MDO3000 and MDO4000C are so delightful to use at work that you'll want one for those home maker projects, too.

*all toys featured in this image were collected from Tektronix engineers' desks and workbenches.

Locate these objects:

- [ ] Bouncy ball
- [ ] 2 Lego™ men
- [ ] A keyring
- [ ] 4 toy cars
- [ ] 20 sided die
- [ ] Ginger cookie and Raspberry Pi

AUGUST 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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When I was in school...
Today's engineering students need hands-on practice to develop their "circuit senses". The 6-in-1 MDO3000 and MDO4000C help students experiment with a wide range of electrical engineering disciplines. MDOs can be configured with a spectrum analyzer, function generator and protocol analysis to cover analog, digital and RF technologies for less cost than standalone instruments.

Locate these objects:

- [ ] 10X passive probe
- [ ] Prototype board
- [ ] Two 7-segment displays
- [ ] Magnet wire
- [ ] Raspberry Pi
- [ ] 5 alligator clips

SEPTEMBER 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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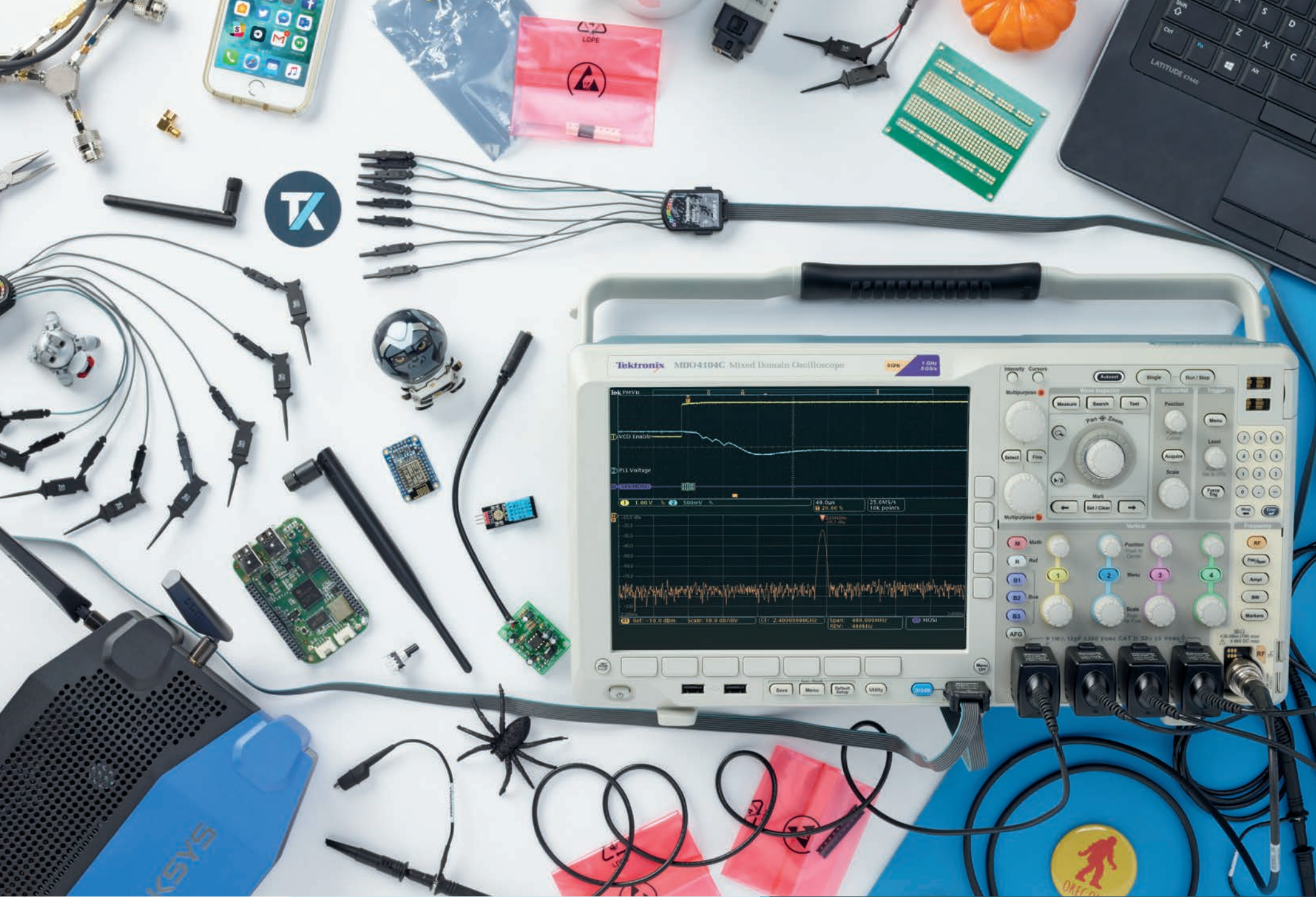
# End-to-end visibility of your "Internet of Things" things

Sensor signal conditioning, on-board processing, robust wireless communications, cheap, super-efficient. The IoT may be based on established technologies, but it's integrating them as never before. Mixed Domain Oscilloscopes give you end-to-end visibility of your "Internet Thing" with up to four analog channels, a built-in logic analyzer, spectrum analyzer and protocol analyzer.

Locate these objects:

- RF power splitter
- Rotary encoder
- Right angle SMA jack connector
- 2 Wi-Fi development boards
- Bigfoot (aka Yeti & Sasquatch)
- An arachnid

OCTOBER 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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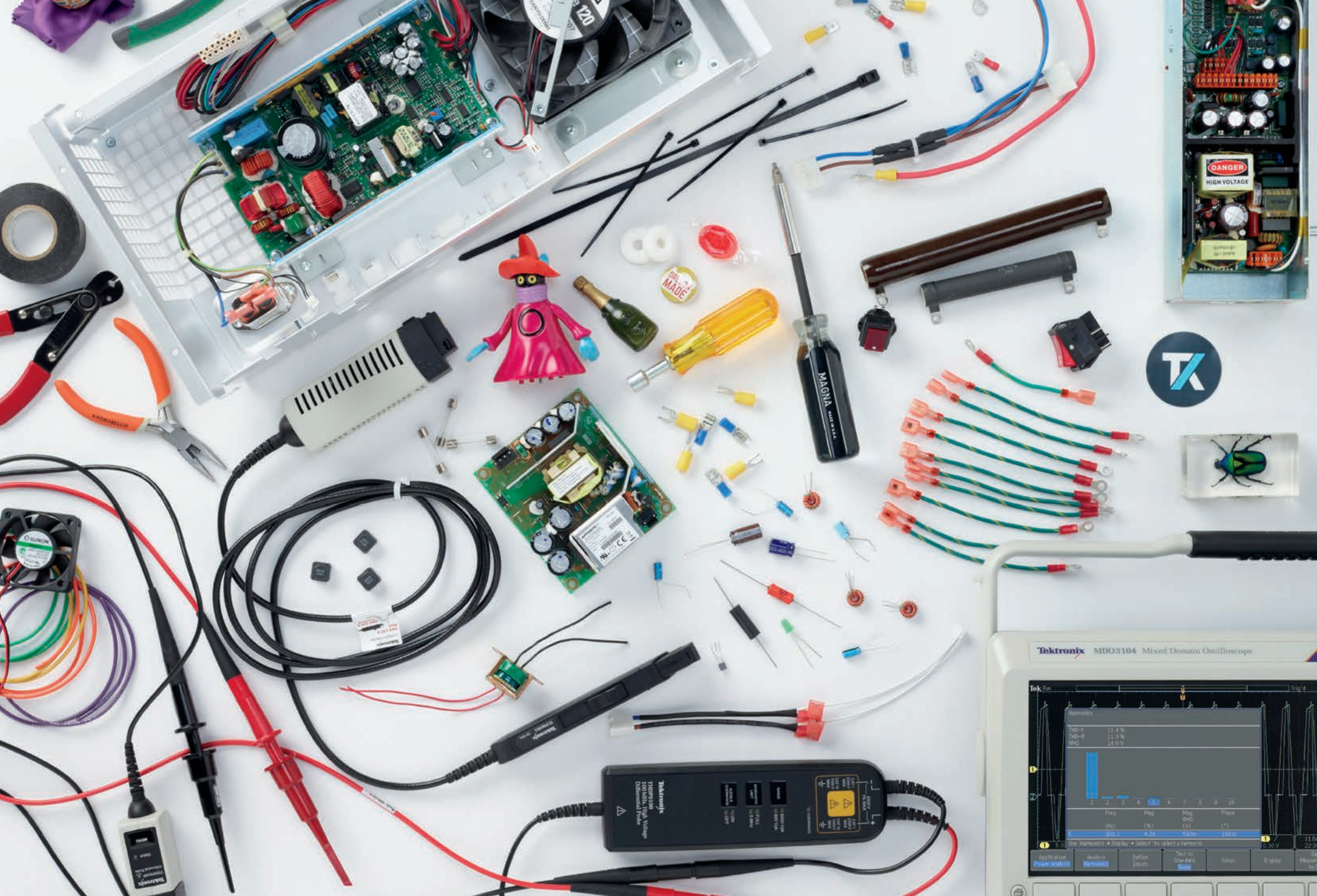
Power tools for power supply design

Finding the best power supply design requires accurate and repeatable power measurements. MDO3000 and MDO4000C oscilloscopes are available with Power Measurement and Analysis modules to automate important power measurements. They work with TekVPI current probes and differential probes for measurements you can count on.

Locate these objects:

- [ ] 2 fans
- [ ] 3 surface mount inductors
- [ ] Loose transformer
- [ ] AC/DC 30amp current probe
- [ ] 2 wire wound resistors
- [ ] A bug

NOVEMBER 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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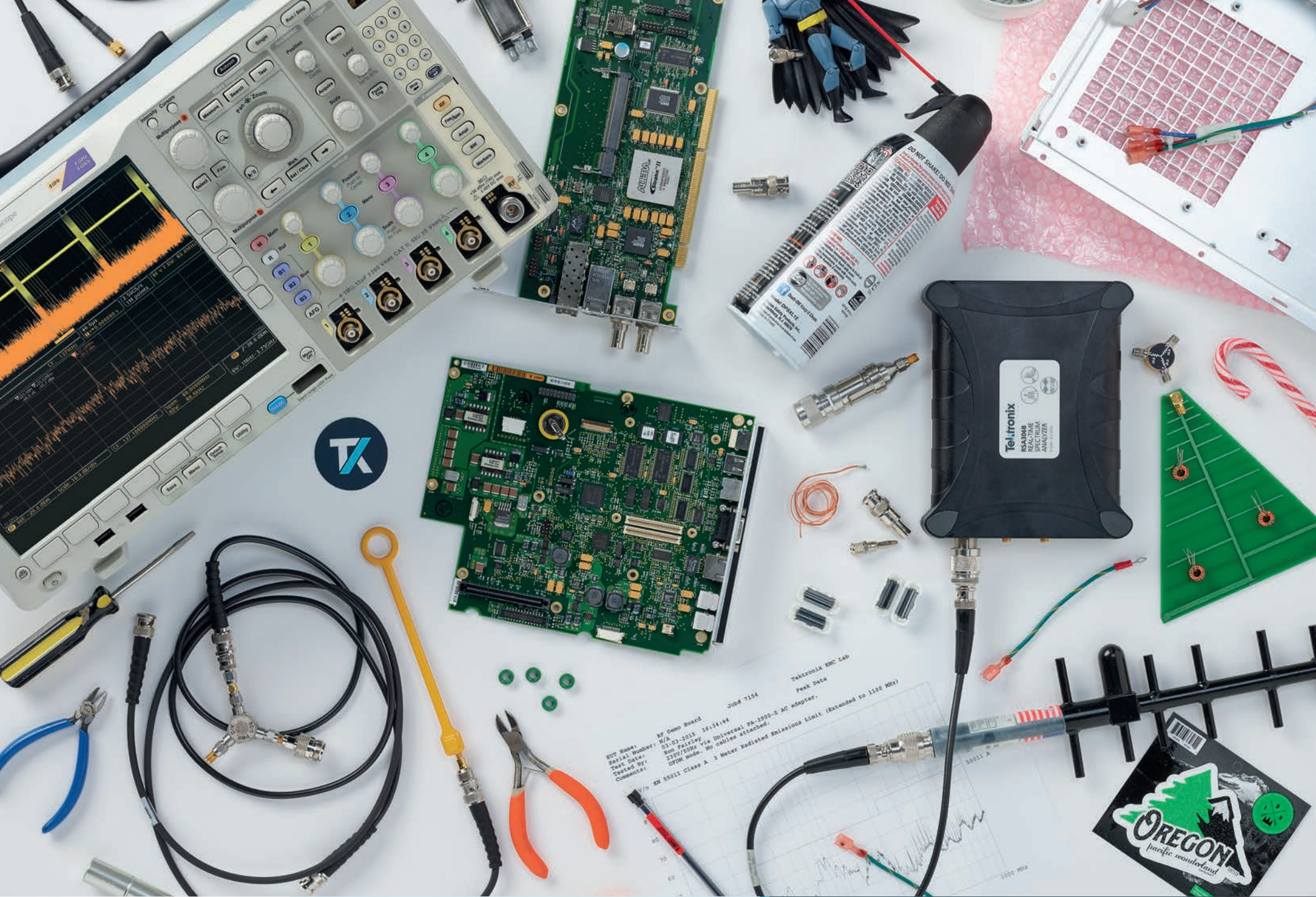
Time matters. Pass EMI compliance tests fast

When you're able to perform EMI pre-compliance testing and troubleshooting in your own lab you can save significant time and money. Rely on the RSA306B USB Spectrum Analyzer when you want to run quick pre-compliance scans . When you need to troubleshoot EMI problems, count on the MDO4000C with its integrated oscilloscope, logic analyzer and spectrum analyzer-- all synchronized.

Locate these objects:

- [ ] Near field probe
- [ ] 4 Ferrite Cores
- [ ] 2 power splitters
- [ ] 6.2 GHz USB spectrum analyzer
- [ ] A screwdriver
- [ ] Candy cane

DECEMBER 2017

MON	TUE	WED	THU	FRI	SAT	SUN
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