



Jake Nonnemaker
CEO & Chief Geek
AXICOM

Happy Birthday Boy Scouts! February 2015

AXICOM
Networks • Computers • Security • Service

Computer Network Solutions and Management Services

AxiNews

Inside AxiNews

p1: Securing Your Google Account
p1: Insider Look at CES 2015
p3: 3D Printing
p4: Inquiring Minds

Fun Facts About Boy Scouts

1. Saturday, Feb 8 is the 104th anniversary of the Boy Scouts of America.
2. Only 5% of Boy Scouts earn the rank of Eagle Scout every year.
3. Of the 294 Astronauts, more than 180 had been Boy Scouts in their youth; 40 were Eagle Scouts.
4. The Cyber Chip program teaches Scouts about cyberbullying, cell phone use, texting, blogging, gaming and identity theft.
5. Cub Scouts are known for having Pinewood Derbies with wood racecars and Rainboat Regattas with wooden boats.
6. Boy Scouts and Cub Scouts sell popcorn in the Fall in front of grocery stores for their annual fundraising.

Tech Briefing : Securing Your Google Account—Part 2

The security of your systems should be top-of-mind, especially with the ever increasing number of account hacks and malware attacks. For those with Google accounts, the risk of having your account information breached is always there, and it is therefore a good idea to take steps to ensure that your account is secure. Here is the second part in the series.

Use 2-step verification

Most major websites offer enhanced login security these days, Google included. When enabled, you will need to enter a second code - usually sent to your mobile or generated by a PIN generator - in order to access your account.

The major benefit here is that anyone who tries to access your account will need to enter this PIN, and because the majority of hackers won't have access to your mobile device, your account will be more secure.

You can enable 2-step verification by:

1. Logging into your Google account.

2. Going to the 2-step verification website (<http://www.google.com/landing/2step/>).
3. Pressing Get Started at the bottom of the page.
4. Selecting Start Setup on the next page.
5. Logging into your account again.

Following the instructions on the following pages.



In order for this to work, you will need a mobile device. You can either enter a phone number or choose to download the Google Authenticator app onto your mobile device. Regardless of which method you use, you will need to enter a cell number during the setup.

(Continued on page 2)

An Insider's Look at CES 2015

By Christa Nonnemaker

A weeklong show the first week in January, the Consumer Electronics Show is one of the biggest conventions held in Las Vegas every year. This year, the event was held in multiple locations—at the Sands Expo Center which is attached to the Venetian, the Aria Hotel and the Las Vegas Convention and Conference Center. Jake and I decided to spend some time at CES this year.

Although we didn't have a chance to get to every expo venue because of the vastness of the show and time limitations, what we were able to see was enlightening, exhilarating and encouraging. It's heartening to see the level of innovation in technology. Some products are not even ready for the marketplace while others were undergoing improvements and revisions.

(Continued on page 2)



Securing Your Google Account (cont.)

(Continued from page 1)

Audit your account security settings

If you are unsure as to how secure your account is, or the security options you have available, one of the first stops you make should be to Google's account checkup page (<http://g.co/accountcheckup>). Here you will see a number of security options that are available to you which you can enact or modify.

Finally, take a look at your account login locations on a

regular basis. This information can be found here: <https://security.google.com/settings/security/activity> and shows you where recent logins were made, what systems were used, and even the IP address. Should you see some irregular activity, or strange looking login locations, then it is advisable to change your password immediately.

If you are looking to learn more about the security of your accounts, and what you can do to ensure that hackers can't gain access, contact us today.

Insider's Look at CES 2015 (cont.)

(Continued from page 1)

So, here are some of the highlights of the CES exhibits that we visited.

Health and Wellness

Health tracking and wellness tracking had a variety of exhibitors including FitBit and many direct competitors to Fit Bit such as inBody. And, wellness wasn't limited to just humans. Pet needs were also addressed in the forms of connected dog collars. FitBark, for example, is an activity tracker that even supplies baseline health ratings from same breeds for comparisons. (see photo below)



Smart Watches

Smart watch vendors were out in full force. Alcatel's One Touch, Garmin's Vivoactive, the Sony Smartwatch 3, and the Motorola Moto 360 were just a few of those that we saw. Most included heart rate monitoring, a pedometer, Bluetooth capability, LCD touchscreens and sometimes more such as sports apps, alerts for incoming calls, texts,

emails, calendar items and social media. A company in France even had a watch to track tennis match scores with live reporting via Internet.

Robotics

Robotics manufacturers had a wide range of amazing products. Many people are familiar with the vacuum robots. At CES, there was also the BBQ grill-cleaning robot, the service robot to get drinks for you so that you don't have to get off the couch, a robot cart that can follow disabled or elderly people so that they have access to what they need and the household lady robot!

3D Printing

The 3D Printing section was so compelling and riveting that it warrants its own separate article which is on the next page.

Cell Phone Chargers

Many companies have been addressing the need for quicker, faster and more powerful re-charging of devices. As such, we saw the octopus-style multi-USB charging devices, a solar powered charger and flashlight combo from Waka Waka and the Lightening Pak which is capable of jump starting a car, charging your cell phone multiple times and includes an LED flashlight.

There was a lot to observe at CES but it was exciting, fun and invigorating to see all the innovation!



Waka Waka chargers

Famous Scouts

Eagle Scouts: Neil Armstrong, Michael Bloomberg, Michael Dukakis, Gerald Ford, Robert Gates, Michael Moore, H. Ross Perot, Donald Rumsfeld, Mike Rowe, Steven Spielberg

Scouts: Hank Aaron, Jimmy Buffett, George W. Bush, Bill Clinton, Walter Crokite, Harrison Ford, Bill Gates, John F. Kennedy, Paul McCartney, Jim Morrison, Barack Obama, Mark Spitz, George Takei

3D Printing—the New Frontier

As mentioned in “An Insider’s Look at CES 2015, 3D Printing was one of the stand-out areas at the Sands Exhibit Hall. 3D Printing is the wave of the future and the opportunities are limitless.

How 3D Printing Started

3D printing first started in the 1980s and was originally based on a technique called stereolithography (SLA) in which a UV laser was shined into a vat of ultraviolet-sensitive photopolymer (liquid photocurable resin), tracing the object to be created. The laser beam would then print the object layer by layer. Each layer hardens as the light hits the resin. Other methods were also developed in the 1980s.

Types of 3D Printing

There are multiple ways to print in 3D although all the vendors at CES purported that their products were the strongest and most resilient. Most 3D objects have just one color but at CES there were some multi-colored objects on display. In any case, all 3D printables start off with having a CAD file design which is sent to the printer.

There are a few different types of 3D printing: stereolithography (SLA) as described above, fused deposition modeling (FDM), selective laser sintering (SLS), PolyJet photopolymer and Syringe Extrusion. FDM uses plastic by extruding melted thermoplastic material



Colored 3D printed objects using FDM process.

out of a nozzle and fuses onto successive layers. Selective Laser Sintering works like SLA but uses powdered materials like ceramic, glass, nylon and metals instead of liquid photopolymer. Syringe Extrusion is best used for materials with creamy viscosity such as

clay, cement, silicone, Play-Doh or for foods like chocolate, frosting or cheese.

What are the Benefits of 3D Printing?

3D printing offers people the ability to turn concepts into models or prototypes and also allows for rapid design changes. It allows people to create tools and fabricate objects quickly and in some cases, inexpensively. Depending on what's needed, sometimes 3D printing can replace the need to do large runs of products, thus helping to keep inventory at a manageable level and reducing warehouse space.

Types of 3D Objects

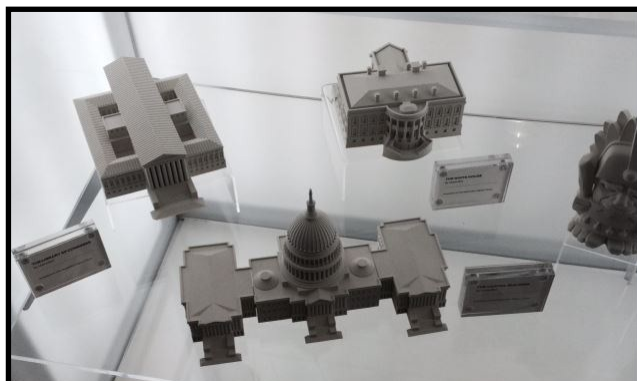
Designers have created products and models for all sorts of purposes including shoe designs, furniture, wax castings for jewelry, tools, tripods, gifts novelty items and toys.

While at CES, we met a teacher at the MakerBot booth who had her 5th grade class create an entire harbor.

They had boats, buildings, fish and more. Many designs for 3D printing are available through sites like Thingiverse, 3D Parts Database and 3D Warehouse which helps in not having to re-invent the wheel.

Some would say that 3D printing is a game changer. New bioprinters can create human tissue. Some 3D printers have printed prosthetics for people. Artists can create truly incredible pieces, archeologists can scan priceless artifacts. The possibilities are endless.

And, if you don't feel like spending the \$300-\$2000 on a personal 3D printer, you can have it printed through a 3D printing service bureau like Shapeways or Ponoko or find a local 3D printer through 3DHubs.com.



More amazing 3D buildings at CES show! About 3 inches high.



AXICOM

Networks • Computers • Security • Service

February 2015

31352 Via Colinas #104
Westlake Village, CA 91362
(818) 865-9865

www.AXICOM.net

*Make all of my computer problems go away
without the cost of a full-time I.T. staff*

*Ask us about our fixed price service agreements and kick off the
new year with computer support at a flat monthly fee you can
budget for just like rent!*

AxiGuard

Our printed newsletters are always available
online! Check it out at www.AXICOM.net.



Inquiring Minds...

Did you know that Jake is a Scoutmaster?

Most of you know Jake as the owner of AXICOM. But did you know that Jake is also the Scoutmaster for Troop 775 in Westlake Village? Jake was possibly destined for this position as he was actually born on the night of a Blue and Gold Banquet for his older brothers' Cub Scout Pack. On the weekends, Jake leads many Scouting activities like hiking, camping, backpacking, helping with community service projects and more. Always a "gadget guy", Jake took his Waka Waka charger to a recent Boy Scout Rocket Launch event in the Mojave Desert and it worked very well! As Scoutmaster, Jake enjoys seeing the Scouts mature and become confident in taking on new challenges!

"We must change boys from a
'what can I get' to a
'what can I give' attitude."

- Lord Baden-Powell, Founder of
Boy Scouts

Self-Driving Cars

At CES, some car manufacturers exhibited their cars with features including self-parking and collision-avoidance. In the case of Audi, they sent a self-driving car from San Francisco to Las Vegas. Volkswagen had an e-Golf which could park itself and back itself out of a tight spot.

Leap Second

On June 30 at 11:59 clocks will count all the way up to 60 seconds in order to normalize the fact that Earth's spin is gradually slowing down, by about two thousandths of a second per day but atomic clocks are constant. Thus, occasionally, years need to be lengthened. In 2012 when this happened, much of the Internet went down. Reddit, Yelp and LinkedIn all reported problems. So, companies are gearing up to confront the issue. Be aware that one second might cause chaos, or it might not—we just don't know yet!



Jake on a Boy Scout backpacking trip in King's Canyon in Sequoia National Park, California