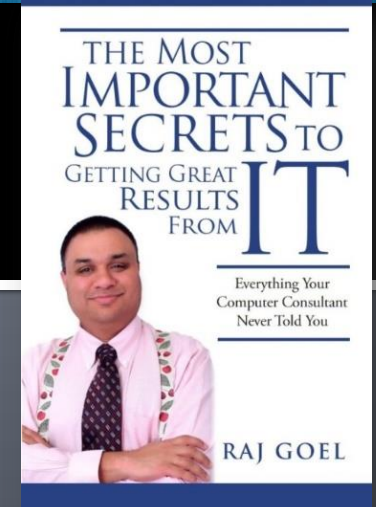
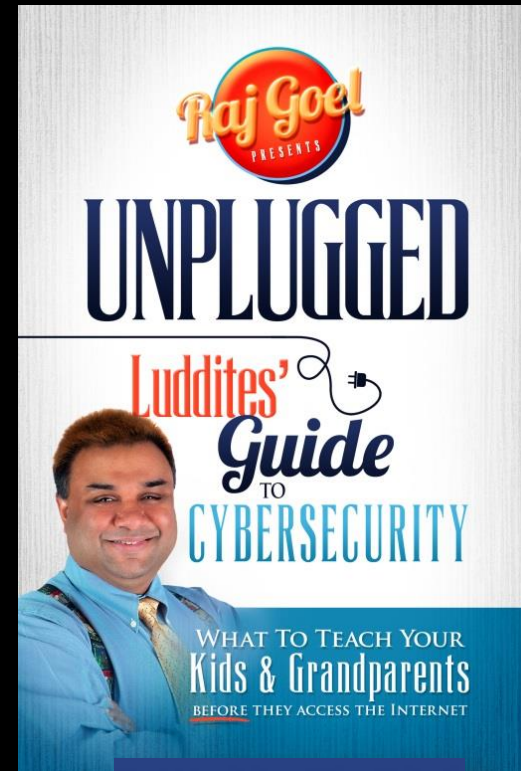


Payroll Heists, Cybercriminals And YOU: Best Practices for Protecting Your Organization

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@rajgoel_ny



Raj Goel, CISSP

- » Author, entrepreneur, IT expert and public speaker, Raj Goel is globally known as the go-to man in cyber security and privacy law. He is committed to educating individuals and organizations about online safety and how to protect their most important assets – **people and data**. His expert advice helps individuals, companies and conglomerates navigate their way through the world's ever-changing technology and increasingly complex IT compliance laws. He often appears in the media and at conferences world-wide to educate the public on cyber-security and digital privacy, a subject he is passionate about.

» Security, Civil Liberties and a Peace of Mind

- » When you need the right approach to complying with HIPAA/HITECH, PCI-DSS or simply protecting your assets, Raj Goel, as any of his loyal clients will tell you, is the man to call upon. Raj's credentials are impeccable. A 25-year veteran of the IT industry and an expert in online security, Raj has personally consulted with organizations ranging from Fortune 100 corporations to small family companies to governments world wide.
- » Raj is fueled by his passion for enhancing Civil Rights in Cyberspace, his love of helping people keep themselves, their families and their companies safe online. He is available as a consultant and a public speaker and often sought after by major media outlets and companies.

» Key highlights:

- **Author**, "UNPLUGGED Luddites Guide To Cybersecurity", Amazon, 2015
- **Author**, "The Most Important Secrets To Getting Great Results From IT", Amazon, 2012
- **On-Air Television Cybersecurity Expert**, WPIX11, New York City (2013-present)
- **On-Air Cybersecurity Expert**, Columbia News Tonight, Columbia University, NYC
- **Keynote speaker**, NCSL 2013, Government of Netherlands, The Hague, Netherlands
- **Keynote speaker**, Government Of Curacao, 2013
- **Keynote speaker**, "what should MSP's know about compliance", Datto partner conference, 2013
- **Author**, "Googling Your Privacy and Security Away", Infosecurity Professional Magazine
- **Author**, "Trends In Financial Crimes", Infosecurity Professional Magazine
- **Author**, "Life Of A Child (2014) – raising a generation of cyber-at-risk youth", Infosecurity Professional Magazine, 2014
- **Author**, "Welcome To The World Of Dating Sites", Infosecurity Professional Magazine, 2015



Media Appearances



Nationaal Cyber Security Centrum
Ministerie van Veiligheid en Justitie



Global Business and
Technology Association™



The New York Times

Entrepreneur

(ISC)²

SECURITY TRANSCENDS TECHNOLOGY™

BrightTALK™



PenTest
magazine

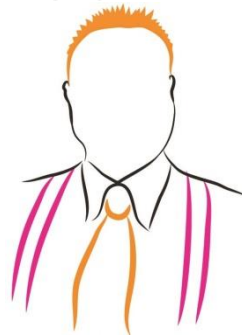


NEW YORK COUNTY
NYCLA
LAWYERS' ASSOCIATION

About BRAINLINK

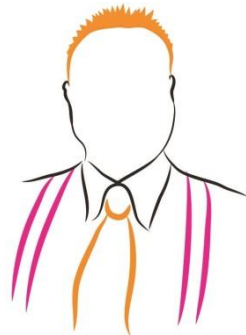
- ✓ Founded in 1994
- ✓ NYC Based
- ✓ Works Like An Extension of Your Firm
- ✓ Wide Range of Skills
- ✓ Fun To Work With
- ✓ Dedicated To Increasing Your Productivity & Profitability

You Run Your Business And Leave The IT To Us.



Who we serve

- We partner with companies who are looking for fresh ideas and leadership. We help business owners who want to leverage technology as a competitive advantage in their market.
- Ultimately, our clients want their team to focus solely on money-making activities and put the entire burden of managing the complexity of modern technology on our shoulders.



What You Will Learn

- What is Cyber Crime?
- Why They Attack
- How to Protect Yourself, Your Family & Your Business



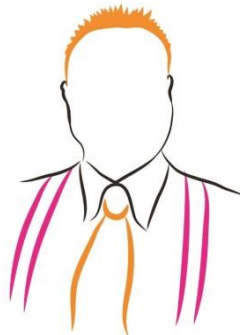
Digital Underground

- Buy Stolen Credit Card Numbers
- Buy Physical Credit Cards
- Buy Card Cloners
- Skimmers on phones and ATM's
- Restaurant Servers



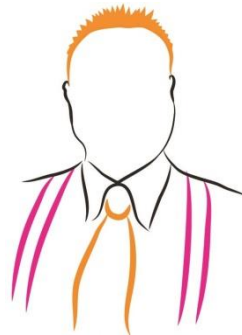
Targets

- PC's and Servers
- Phones
- Home Automation
- Video Conferencing
- Refrigerator
- HVAC System
- Photocopiers
- Facebook
- Twitter
- Your Website
- Cars
- TV's
- Video Games



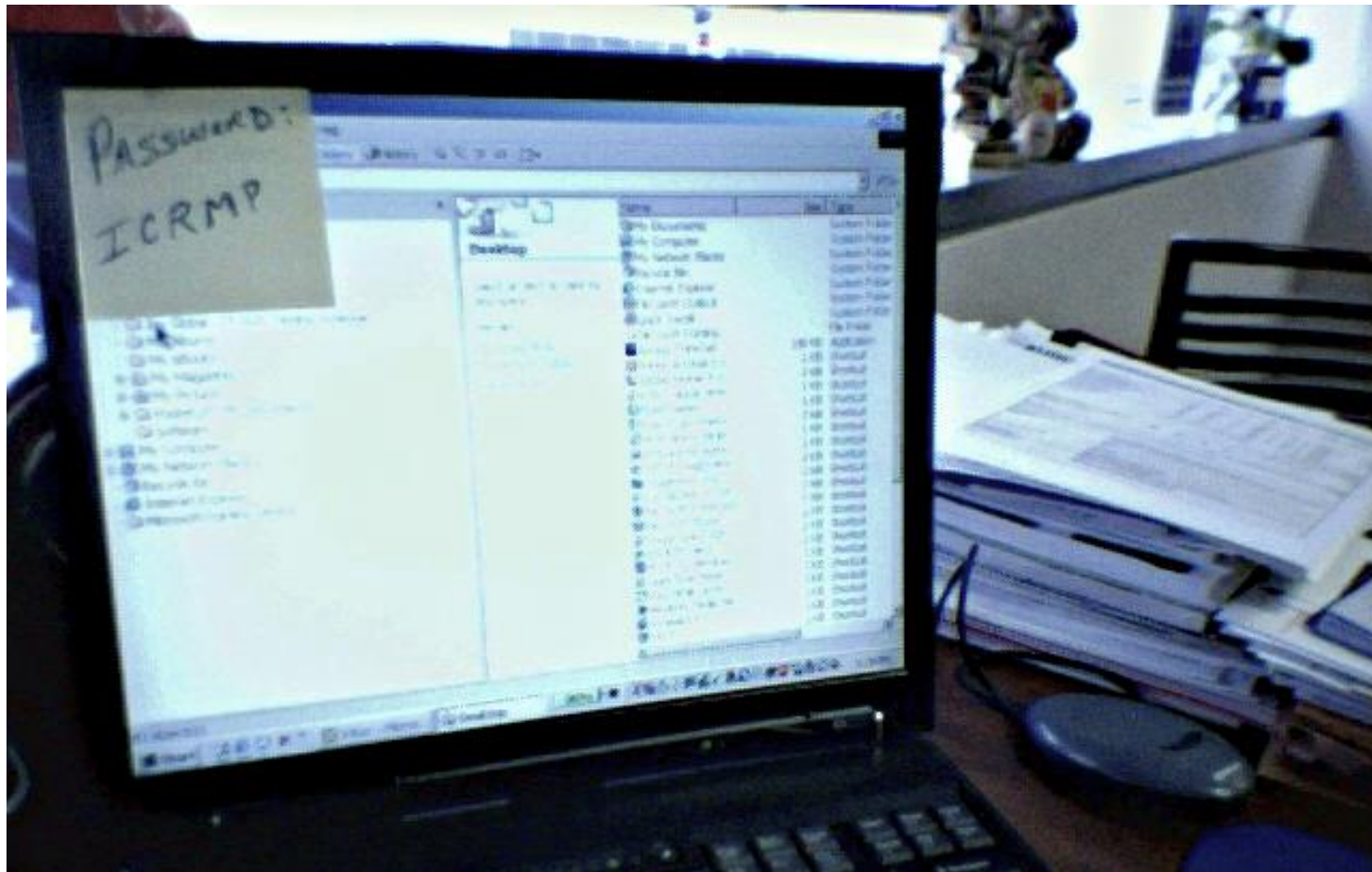
How?

- Open WiFi & Key loggers
 - Phishing emails & SMS
 - Shady websites & Porn
 - Re-Route your phone calls
 - Buy stuff that already contains Malware
 - Fake Antivirus
 - Ransomware like Cryptolocker
- # 1**
- Your Employees Doing Dumb Things**



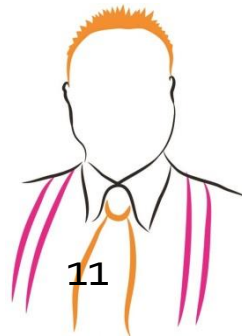
One of My Favorite Photos

“I have met the enemy, and he is us.” - Pogo



Common Rationales

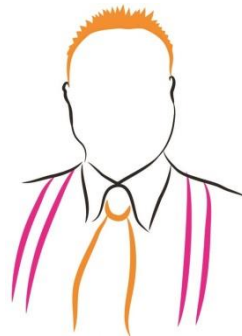
- There's nothing a hacker would want on my PC
- I don't store sensitive information on my PC
- I only use my computer for checking email
- My firm isn't big enough to worry about hackers or cyber crime



Are You Part Of The 93%? Or 7%?

93% of companies that lost their data center for 10 days or more due to a disaster filed for bankruptcy within one year of the disaster, and 50% filed for bankruptcy immediately.

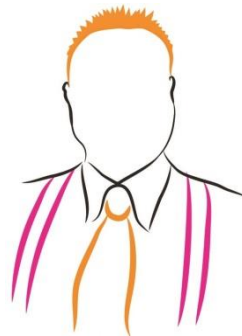
(Source: National Archives & Records Administration in Washington)



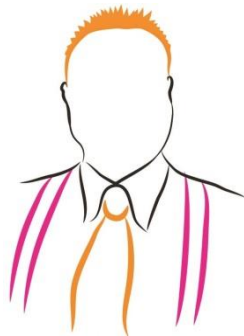
1 in 5. Care to place a bet?

**20% of small to medium businesses
will suffer a major disaster causing
loss of critical data every 5 years.**

(Source: Richmond House Group)

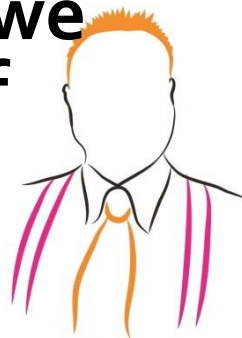


Case Studies



Patco Construction

- A Maine-based construction firm got infected with the Zeus Trojan virus and \$588,851.26 was transferred from their accounts. Their bank recovered \$243,000 but Patco was on the hook for \$345,000. Patco was dragged through three years of lawsuits by their bank before the case settled.
- **"We had hundreds of thousands of dollars in legal fees," says Patterson. "So even after we got the \$345,000 back, we lost hundreds of thousands."**



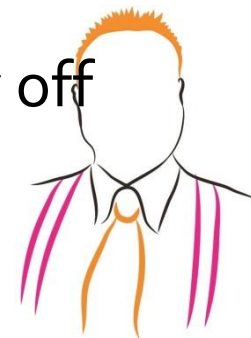
New Years Eve Burglary Shatters Billing Firm

- Impairment Resources LLC filed for bankruptcy after the break-in at its San Diego headquarters led to the electronic escape of detailed medical information for roughly 14,000 people, according to papers filed in U.S. Bankruptcy Court in Wilmington, Del. That information included patient addresses, social security numbers and medical diagnoses.
- **Police never caught the criminals, and company executives were required by law to report the breach to state attorneys general** and the Department of Labor's Office of Inspector General. Some of those agencies, including the Department of Labor, are still investigating the matter, the company said in court papers.
- **"The cost of dealing with the breach was prohibitive"** for the company, Impairment Resources said when explaining its decision to file for Chapter 7 bankruptcy protection. That type of bankruptcy is used most often by companies to shut down and sell off what's left to pay off their debts.
- The company said its assets are worth about \$226,000, an amount that, even after money trickles in from liquidating sales, likely won't be enough to pay lender Insurance Recovery Group and its \$583,000 loan, Impairment Resources said in court papers.



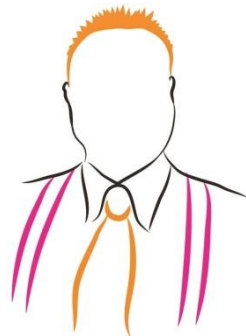
\$1.5M Cyberheist Ruins Escrow Firm

- The heist began in December 2012 with a roughly \$432,215 fraudulent wire sent from the accounts of Huntington Beach, Calif. based **Efficient Services Escrow Group** to a bank in Moscow. In January, the attackers struck again, sending two more fraudulent wires totaling \$1.1 million to accounts in the Heilongjiang Province of China, a northern region in China on the border with Russia.
- When Efficient reported the incident to state regulators, the **California Department of Corporations** gave the firm three days to come up with money to replace the stolen funds.
- This forced the California escrow firm to close and lay off its entire staff.



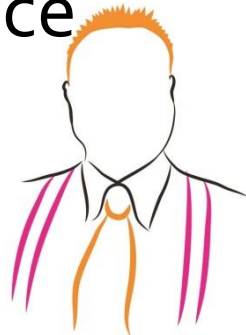
Ex-Worker, Husband Sentenced In Pa. Law Firm Hacking

- Law360, New York (October 18, 2013, 6:09 PM ET) -- A former employee of a Pittsburgh, Pa., law firm and her husband were each sentenced Friday to three years of probation, on federal charges that they hacked into the firm's computers in conjunction with a supposed member of the international hacker network Anonymous
- Alyson Cunningham, 25, and Jonathan Cunningham, 29, pled guilty in June to two counts of damaging a computer and unlawfully trafficking in passwords. The actions in question took place after Alyson Cunningham was fired from her job at Voelker & Gricks LLC in 2011.



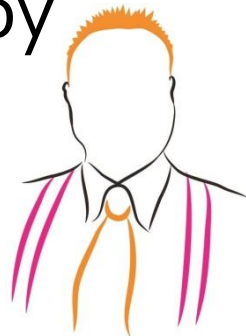
China-Based Hackers Target Law Firms to Get Secret Deal Data

- China-based hackers looking to derail the \$40 billion acquisition of the world's largest potash producer **Potash Corp (Ca)** by an Australian mining giant **BHP Biliton Ltd (Aus)** zeroed in on offices on Toronto's Bay Street, home of the Canadian law firms handling the deal.
- Over a few months beginning in September 2010, the hackers rifled one secure computer network after the next, eventually hitting seven different law firms as well as Canada's Finance Ministry and the Treasury Board
- - Bloomberg.com



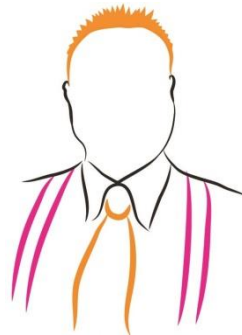
Partner of Hacked Law Firm, Puckett & Faraj, Is Now Fielding FBI Phone Calls

- [former website administrator] had his servers wiped clean of all client email, not simply the Puckett firm's material.
- The firm's Google email passwords weren't secure enough to keep out hackers who may have been using equipment that can rapidly try out multiple possible combinations, according to Puckett. So the firm has changed all of its email passwords and made them more complex. Fortunately, although the email was copied by Anonymous hackers, it wasn't deleted.
- - ABA Journal



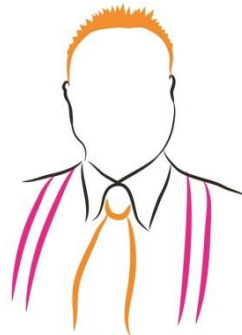
Law firm's trust account hacked, 'large six figure' taken

- A law firm lost “a large six figure” over the holidays after a virus gave hackers backdoor access to its bookkeeper's computer. The virus copied bank account passwords as she typed them.
- The virus “tricked the [bookkeeper] into giving the trust account's password to the fraudsters, allowing them essentially full access to the trust account, including the ability to go in, monitor it, and wire money to foreign countries shortly after deposits were made,”
- Lawtimes.com



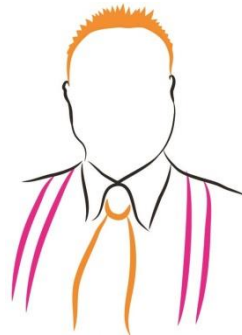
Ubiquiti Networks loses \$47M

- Ubiquiti Networks was scammed out of \$47M by scammers "employee impersonation and fraudulent requests from an outside entity targeting the Company's finance department."
- - NBCNews.com



The Scoular Co, \$17.2M lost

- According to Omaha.com, an executive with the 800-employee company wired the money in installments last summer to a bank in China after receiving emails ordering him to do so.
- - KrebsOnSecurity.com



Fake Receipts, Chinese Style

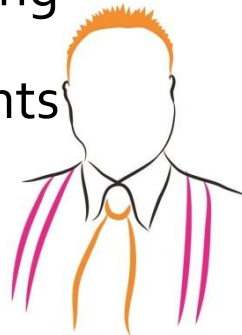
- “ More than 1 million bogus receipts worth 1.05 trillion yuan (147.3 billion U.S. dollars) were confiscated in the case. The national treasury would lose more than 75 billion yuan in tax revenue if the receipts were put into circulation, officials said.”
- <http://english.people.com.cn/90001/90776/6359250.html>

Good News:

- Ringleader gets 16 years in jail.

Bad News:

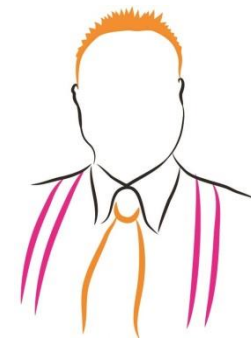
- One of their customers claimed his company was NASDAQ listed and raised \$50M from unsuspecting investors.
- How many of YOUR vendors are claiming financial health using fake receipts?
- How many of YOUR employees padded their expense accounts using fake receipts?



Employees cause 87% of breaches

Trace Type	Data
File	D:\RoamingProfiles\Desktop\ [REDACTED] My Documents\REVIT2012\Crack\xf-adesk2012x64.exe
Archive	D:\RoamingProfiles\Desktop\ [REDACTED] My Documents\REVIT2012\Crack\xf-a2012-64bits.rar xf-adesk2012x64.exe
Archive	D:\RoamingProfiles\Desktop\ [REDACTED] My Documents\REVIT2012\Crack\xf-a2012-32bits.rar xf-adesk2012x32.exe
Archive	D:\RoamingProfiles\Desktop\ [REDACTED] My Documents\REVIT2012\AUTODESK.REVIT.ARCHITECTURE.V2012-ISO\rac2012\rac2012...
Archive	D:\RoamingProfiles\Desktop\ [REDACTED] My Documents\REVIT2012\AUTODESK.REVIT.ARCHITECTURE.V2012-ISO\rac2012\rac2012...

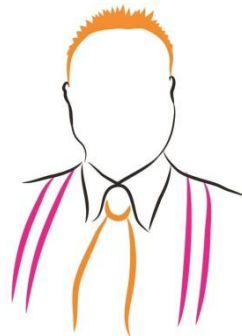
- Young employee downloaded pirated software.
- Banking trojans come along for the ride



Watering hole attacks

3/15/2013	Deep Scan	Quarantined		192.168.1.200	Remote Agents	
Trace Type		Data				
File		D:\RoamingProfiles\Desktop\My Documents\Downloads\Metal Roof Rail Bracket Install Manual pdf(1).exe				
File		D:\RoamingProfiles\Desktop\My Documents\Downloads\Metal Roof Rail Bracket Install Manual pdf.exe				
2/14/2013	Deep Scan	Quarantined	COR-AD2	192.168.1.200	Remote Agents	CORNERSTONE
Trace Type		Data				
File		D:\RoamingProfiles\Desktop\My Documents\Downloads\FastDownload.exe				

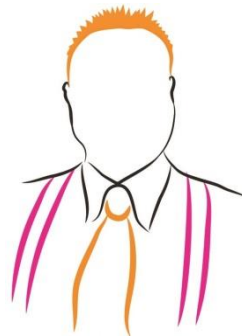
- Criminals infected a major supplier site
- PDFs were infected
- Nasty rootkit hidden in the files



Playoffs or Projects?

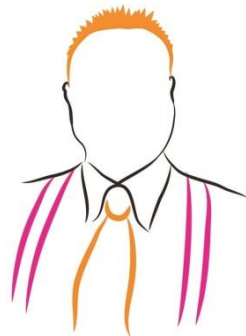
Top Web Users		
User	Hits	Bytes
N/A	39669	771.16 MB
[REDACTED]	22513	6.04 GB
media.newyork.cbslocal.com		3.71 GB
cbsnewwork.files.wordpress.com		8.68 MB

- During playoffs, a single employee consumed as much internet as everyone else combined.
- He spent the whole day watching baseball at work
- Next day, this report was in front of his manager.



Manufacturing firm nearly loses \$315K

- CEO was travelling overseas
- Employee receives email asking her to wire \$315,000 to manufacturers in China
- Boss HAS made similar requests before
- Employees process request
- 1 of the employees thinks email is funny, re-reads it, it sounds “different from normal”
- Calls bank, revokes wire transfer, saves company.
- - KrebsOnSecurity.com

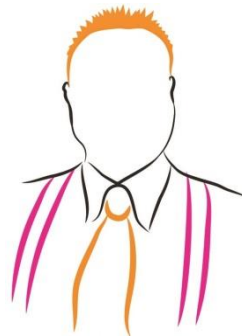


Last Action – Help Someone

**We are here to HELP YOUR
members and their Clients.**

Think of a client who has been a victim of Cyber
Crime, Is worried about Security or Struggling
with Legal Compliance Challenges...

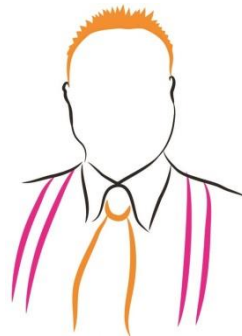
Now help us help them



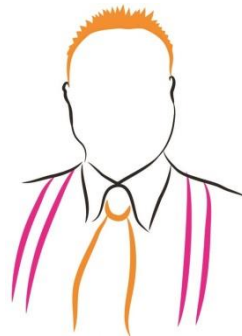
Increasing Productivity

- Productivity is
 - 20% Technology
 - 30% Procedures & Processes
 - 50% People.

We promise 30% increase in productivity
...or your money back!



Questions?



Contact Information

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Author of

UNPLUGGED Luddites Guide To Cybersecurity

<http://www.amazon.com/UNPLUGGED-Luddites-Guide-CyberSecurity-Grandparents/dp/0984424830/>

The Most Important Secrets To Getting Great Results From IT

<http://www.amazon.com/gp/product/0984424814>

