



# Guide/Kit to kick start a Control Systems Security Program

Graham Speake

Principal Systems Architect



## ■ Disclaimer

All content has been prepared without any overview from Yokogawa or DHS.



## ■ Profile

- ▶ BSc Electrical and Electronics Engineer
- ▶ 16 years experience in computer security
- ▶ 12 Years experience in automation security
- ▶ Worked for Ford Motor Company, ATOS-Origin and BP
- ▶ Worked as an independent consultant on financial security
- ▶ Member of ISA, ISCI, ISC<sup>2</sup>
- ▶ Principal Systems Architect at Yokogawa



After lunch moment



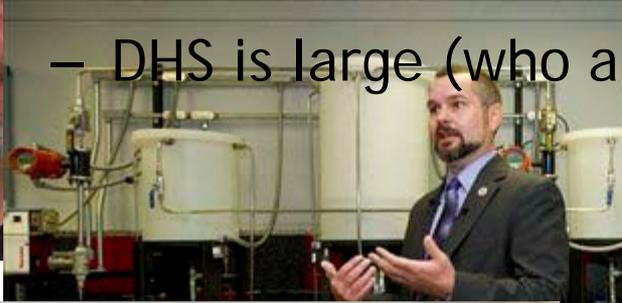
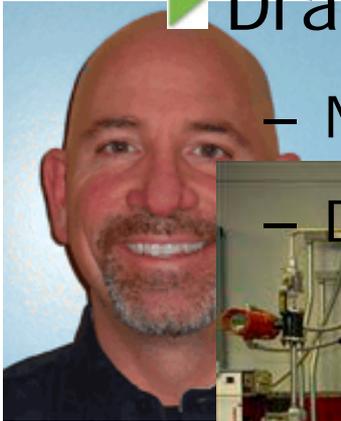
## ■ *Social Networking Treasure*

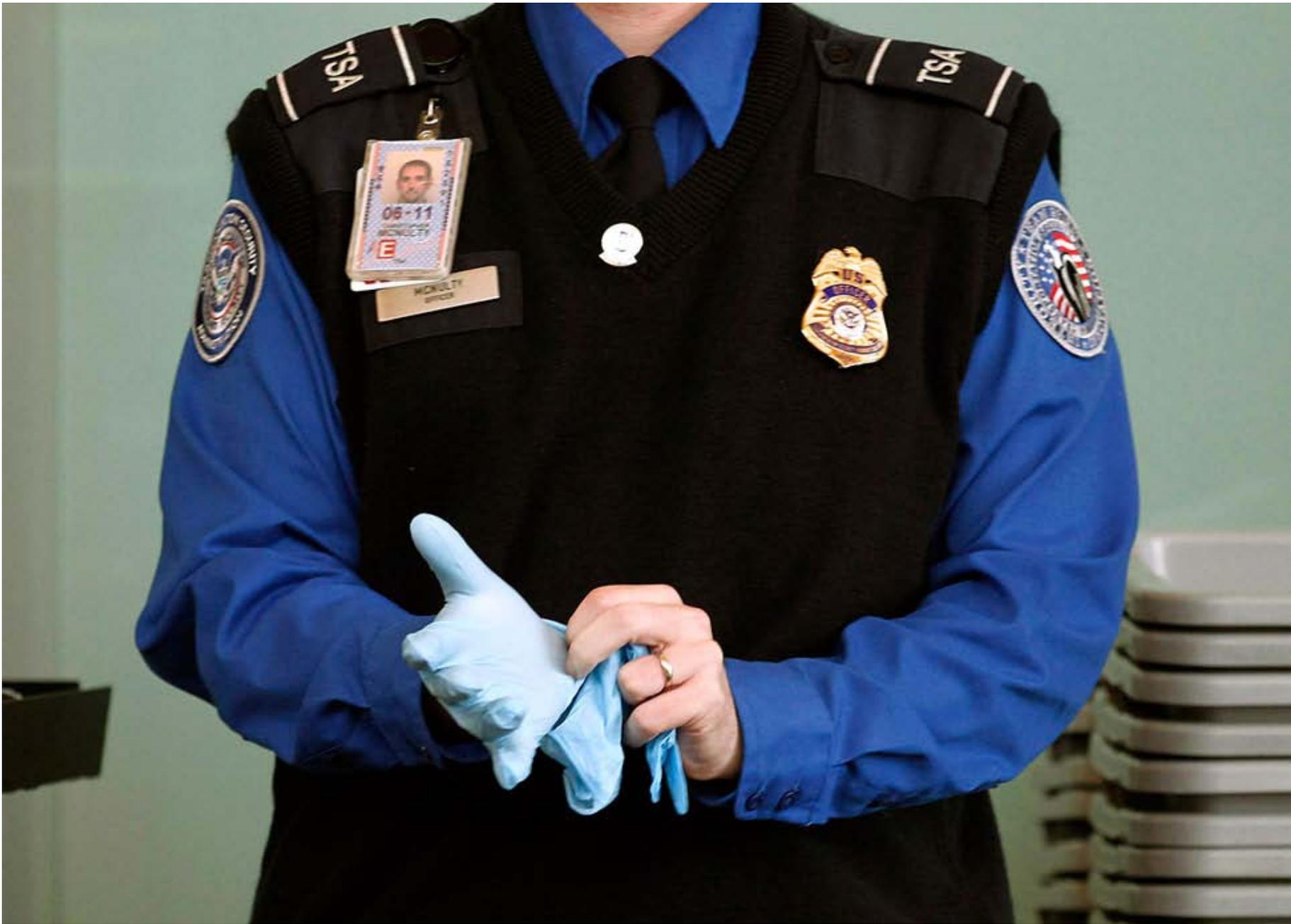
- ▶ Tells every aspect of your life
- ▶ Tells your interests, family, employer
- ▶ People discuss every aspect of their lives
- ▶ People discuss problems with their employers
- ▶ People leave tracks that show their vulnerabilities
- ▶ People don't realize what's out there

# ■ Pick on someone ....

## ▶ Drawbacks

- Not a US citizen (yet)
- DHS is large (who are





## ■ *Pick on someone ....*

### **Jon DiPietro**

is the founder and principal of Domesticating IT, an inbound marketing consultancy and blog, and [Bridge-Soft](#), LLC, an environmental data management software company. He is also the author of the upcoming book, "[Social Media for Engineers & Scientists](#)" from Momentum Press, a frequent [speaker](#) on Internet marketing and social media, and a [certified Inbound Marketing Professional](#).

After receiving a BS in Electrical Engineering, he began his career as an automation engineer working primarily as a PLC programmer and HMI developer. Working his way up the information food chain, Jon became more and more immersed in software and database development until finally being bitten by the entrepreneurial bug in 1997 and co-founding [Bridge-Soft](#). Since then, he has been travelling the road from a left-brained engineer to a right-brained salesman, marketer, and business owner.

Jon currently serves on the Executive Board of the [Boston Section of the ISA](#) (past President), Director-elect and webmaster for the [Water and Wastewater Industries Division](#), and contributes to the [Management Division](#) and Strategic Planning, Image & Membership, and Publications Departments. He also chairs the Social Networking Committee for the New England Water Works Association and serves on the Customer Service / Information Management Technology Committee for the American Water Works Association.



Engineer by education, geek by choice,  
marketer by necessity

## ■ *What can we find ....*

- ▶ Without resorting to hacking or paying any money (and in less than 20 minutes)

# Here we go ...



**Jon Dipietro, 44**

Manchester, NH

View on: [Twitter](#) [LinkedIn](#) [Facebook](#) [Google+](#) and 1 more

Manchester, NH

Jason Dipietro  
John Dipietro  
Karen Dipietro  
Laurie Dipietro  
Laurie Dipietro

## Jon F Dipietro

(603) 647-9449

115 Pahray Ln  
Manchester, NH 03109-5422

Age: 40-44

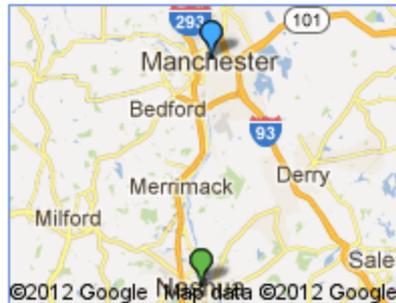
Associated: [Laurie A Dipietro](#)

Claim & Edit



Education University of Massachusetts Lowell  
Southern NH University  
Bishop Guertin High School

Places lived



Manchester, NH  
Nashua, NH

Gender Male

# *What else?*

Other profiles

-  LinkedIn
-  Twitter
-  Domesticating IT Fan Page
-  Facebook Profile
-  SlideShare
-  Google Plus Directory
-  BrandYourself



Gender

**Male**

Phone Number

**(603) 606-\*\*\*\***

Email Address

**Get Email Search**



Current Address

**\*\*\*\*\* Harvey Rd**

City & State

**Manchester, NH 03103**

Family Members

**See Family Tree**

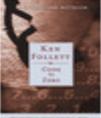
# Facebook?



## ■ *A bit more ...*

- ▶ Age -44
- ▶ Brother - Jason
- ▶ Father - John
- ▶ Oldest child (1994) daughter - Amanda (Manchester Memorial High), 5' 5" , uses "mommy"
- ▶ Family like Ice hockey (Bruins)

# And more ...

cover	title	author	avg rating	rating	my rating	date read	date added	
	Code to Zero	Follett, Ken	3.49	★★★★☆	☆☆☆☆☆ add to shelves	not set	Feb 24, 2012	view
	World Without End (The Pillars of the Earth, #2)	Follett, Ken	4.15	★★★★★	☆☆☆☆☆ add to shelves	not set	Feb 24, 2012	view
	The Pillars of the Earth (The Pillars of the Earth, #1)	Follett, Ken	4.21	★★★★★	☆☆☆☆☆ add to shelves	not set	Feb 24, 2012	view
	One False Move (Myron Bolitar, #5)	Coben, Harlan	3.98	★★★★☆	☆☆☆☆☆ add to shelves	not set	Feb 24, 2012	view
	Sharpe's Eagle (Sharpe, #8)	Cornwell, Bernard	4.14	★★★☆☆	☆☆☆☆☆ add to shelves	not set	Feb 24, 2012	view
	Sharpe's Rifles (Sharpe, #6)	Cornwell, Bernard	4.11	★★★★☆	☆☆☆☆☆ add to shelves	not set	Feb 24, 2012	view
	Sharpe's Havoc	Cornwell, Bernard	3.95	★★★★☆	☆☆☆☆☆	not set	Feb 24, 2012	view



# Guide/Kit to kick start a Control Systems Security Program



# Translations

■ Language difficulties



**I am not in the office at the moment.  
Send any work to be translated**



## ■ Discussion

▶ dis·cus·sion [dih-skuhsh-uhn] *noun*

an act or instance of [discussing](#);  
consideration or examination by  
argument, comment, etc., especially to  
explore solutions;  
informal debate.



What should a kit include?



## ■ Where should you start?

- ▶ IT / Control system policies, procedures
- ▶ What do your engineers do today?
- ▶ What regulation do you have to comply with?
- ▶ What do your competitors do?



## ■ Information gathering

### ▶ What are you trying to protect?

- Control systems
- Critical IT systems (or systems on the IT network)
- Connection points
- Software version
  - OS
  - Vendor
  - Third party vendor
- Critical processes/tasks/connections



## ■ Where should you go for information?

### ▶ What exists in cyberspace?

- Country specific
  - DHS/ICSJWG
  - NIST
  - CPNI
  - CSSC
- ISA/IEC
- Vendors
- Specialists
- Can we translate?



## ■ Training

### ▶ Courses

- ICSJWG
- SANS
- SCADAhacker
- Red Tiger
- Language barrier?



■ What type of company are you

▶ Top down

▶ Bottom up