#### **United States Military Academy**

### **USMA Digital Commons**

**ACI Books & Book Chapters** 

**Army Cyber Institute** 

2018

### **Engineering a Traitor**

**Brian David Johnson** 

Follow this and additional works at: https://digitalcommons.usmalibrary.org/aci\_books



Part of the Information Security Commons

#### **Recommended Citation**

Johnson, Brian David, "Engineering a Traitor" (2018). ACI Books & Book Chapters. 20. https://digitalcommons.usmalibrary.org/aci\_books/20

This Book is brought to you for free and open access by the Army Cyber Institute at USMA Digital Commons. It has been accepted for inclusion in ACI Books & Book Chapters by an authorized administrator of USMA Digital Commons. For more information, please contact dcadmin@usmalibrary.org.

# ENGINEERING A TRAITOR

Written by Brian David Johnson • Creative Direction: Sandy Winkelman Illustration: Steve Buccellato • Brought to you by the Army Cyber Institute at West Point





# BUILDING A BETTER, STRONGER AND MORE SECURE FUTURE FOR OUR ARMED FORCES

Science Fiction Prototypes are science fiction stories based on future trends, technologies, economics, and cultural change. The story you are about to read is based on threatcasting research from the Army Cyber Institute at West Point and Arizona State University's Threatcasting Lab. Our story does not shy away from a dystopian vision of tomorrow. Exploring these dark regions inspires us to build a better, stronger, and more secure future for our Armed Forces.

Insider threats in industry can cost millions a year in lost revenue. Insider threats in the military may cost lives. Service members are trained to detect warning signs and potential indicators. Yet as technology evolves, the manner in which troops within our force might be recruited and radicalized might also look different.

We cannot just focus on countering what an adversary can bring to bear on the battlefield, but also their influencing operations that might take place years before the first shot is fired in un-expected means. The attack plain is widening. In the future, physical and cyber attacks might be combined to generate even more devastating effects.

Lt. Col. Natalie Vanatta

Academy Professor

U.S. Army Cyber Institute

# ENGINEERING A TRAITOR

CPT Jake Roberts had always wanted to serve his country. In college, he was the only student in his engineering program to be commissioned as a U.S. Army Second Lieutenant in the Corps of Engineers.

But the last year has not been kind to Jake. Bit by bit, he's become disenfranchised from his field office. Not included ... secretly bullied ... left behind ... Jake loses trust with his Commanding Officer.

Turns out, over the last year behind the scenes, he's been nudged and directed by the invisible hand of Al. Targeted for surveillance and coercion, he's pushed to his breaking point ... until he must take action ... It was just a small device hooked into the smart building maintenance system...

How could it lead to the undetected missile attack on Houston? Thousands of civilians killed ... a congressional investigation ... Jake is convicted as a traitor to the country he swore to protect.















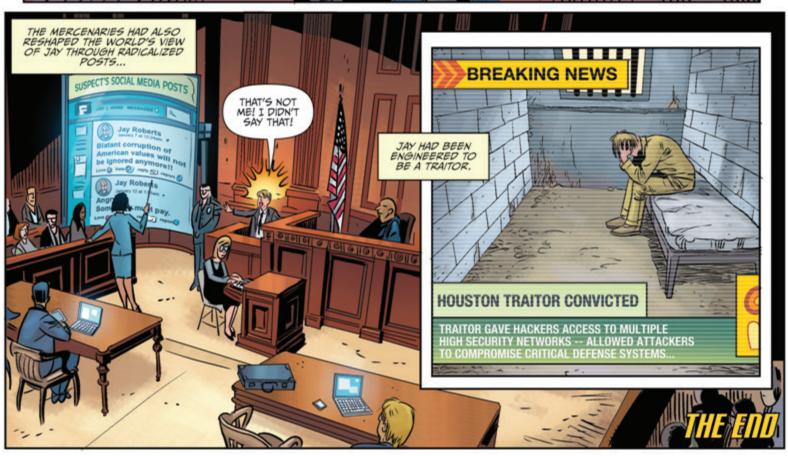












"Due to process efficiencies and technology advances, individual actors in the workforce have become more empowered and can cause significant damage to their employer and business environment, often times with little effort. Couple this with cultural changes, and the "insider threat" has become one of the biggest challenges leaders in the 21st century will face in striving for mission success."

Dr. Brad Millick
Director for Insider Threat
Office of the Under Secretary of Defense for Intelligence

## **AFTERWORD**

In this story, artificial intelligence created the conditions that turned Jake into the weapon that the enemy needed. How might you detect such a threat? How are you supposed to protect yourself and your soldiers in a future where artificial intelligence might shape reality?

Do you trust everything that is delivered to your electronic devices? Do you let 1s and 0s influence your perception of reality more than your five senses?

Also, think about your support structure. When life is not going your way, where do you turn? How do we empower our soldiers to successfully complete missions while also increasing their resiliency?

In a future where technology is more prevalent, more and more of the population may become potential insider threats, able to disrupt operations and injure our security. How do we combat this growing problem? What can you do?

We must learn how to deal not only with the threat from malicious insiders, but also under-trained personnel, accident prone individuals, negligent workers, overwhelmed personnel, mismanaged contractors, and the list goes on. Awareness is the first step. Use this graphic novella to start the conversation.

