

ENGINEERING A TRAITOR

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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

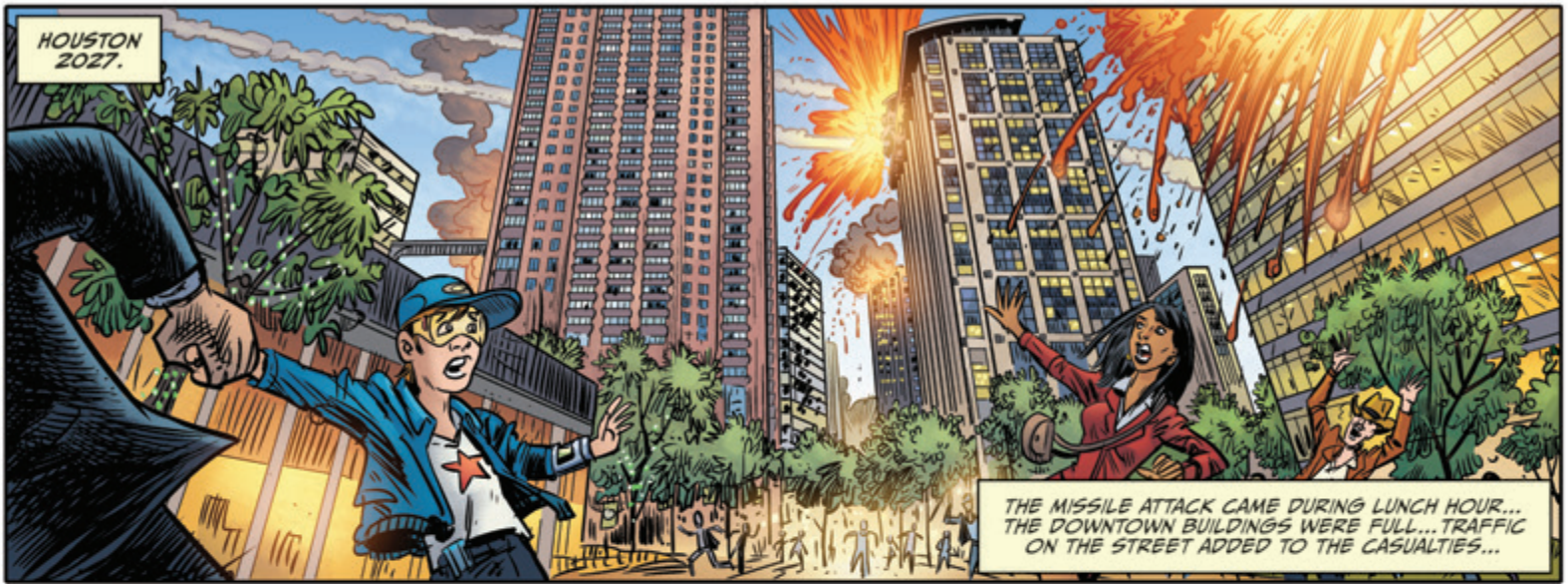
CPT Jake Roberts had always wanted to serve his country. In college, he was the only student in his engineering program to be commissioned as a U.S. Army Second Lieutenant in the Corps of Engineers.

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 AI. 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.

HOUSTON
2027.

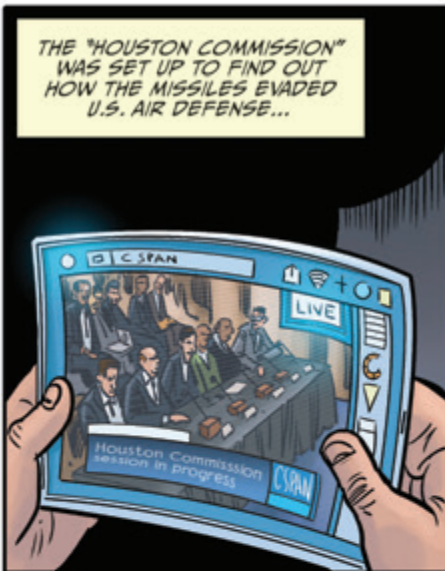


THE MISSILE ATTACK CAME DURING LUNCH HOUR...
THE DOWNTOWN BUILDINGS WERE FULL... TRAFFIC
ON THE STREET ADDED TO THE CASUALTIES...

THE COUNTRY WENT ON HIGH
ALERT... IN THE CONFUSION, IT
WAS UNCLEAR WHO WAS
BEHIND THE ATTACK...



THE "HOUSTON COMMISSION"
WAS SET UP TO FIND OUT
HOW THE MISSILES EVADED
U.S. AIR DEFENSE...



AND, WHO
MADE IT
POSSIBLE?



YEARS EARLIER: JAY
ROBERTS HAD ALWAYS
WANTED TO SERVE HIS
COUNTRY.



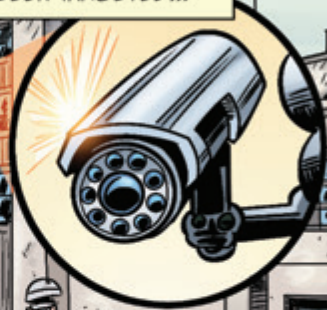
HE SERVED TWO DEPLOYMENTS
IN AFGHANISTAN... ON HIS SECOND
HE EXCELLED IN COMMAND OF
HIS PLATOON...



HE WAS THE ONLY STUDENT IN HIS PROGRAM
TO BE COMMISSIONED AS AN OFFICER IN
THE ARMY CORPS OF ENGINEERS.

RETURNING HOME, JAY'S WORLD WAS VERY DIFFERENT...
WORKING ON MILCON HE MISSED THE COMRADERY OF
HIS PLATOON...WAITING FOR HIS PROMOTION BOARD
TO MAJOR HE TOUGHED IT OUT...

BUT EVEN THEN HE HAD
BEEN TARGETED...



MERCENARIES WANTED ACCESS
TO HIS BUILDING'S HIGH SECURITY
NETWORK...KNOWING THEY
COULD GET ANY PRICE...

USING ARTIFICIAL
INTELLIGENCE,
THE HACKERS
RESHAPED THE
DAILY NEWS FEEDS,
ADVERTISEMENTS,
AND POSTS THAT
JAY SAW...



THEY HIJACKED FAMILY
ACCOUNTS AND SEPARATED
JAY FROM LOVED ONES...

TEXT MESSAGE



UNCLE
LARRY

Don't know why
you're so hostile
buddy - Maybe we
shouldn't talk for a
while. Take care -
don't contact
Aunt Dorothy.

THEY COERCED CONTRACTORS
TO COMMIT TINY INFRACTIONS...AT
THE JOB SITE, SAFETY ISSUES
BECAME FREQUENT...



BECAUSE OF HIS STATE-SIDE PERFORMANCE... JAY'S PROMOTION WAS DENIED...

BUT I HAD A PERFECT RECORD BEFORE I GOT HERE.

HIS CREDIT WAS TAMPERED WITH... FOR JAY, IT STARTED TO FEEL LIKE THE WHOLE WORLD WAS AGAINST HIM...

NEW!
Chai Latte

Espresso	\$3.50	\$4.85	\$6.25
	\$6.00	\$8.00	
	\$6.00	\$8.00	
	\$6.50	\$8.50	
	\$6.50	\$9.25	

THE ONLY PLACE JAY FELT LIKE HE BELONGED WAS PLAYING STRIKE FORCE...

13 BILL257

32 SHRGE091

TEAM: MIZFITZ

MISSION 41
17
21

ISOLATED AND WOUNDED... JAY'S TRUST IN THE ARMY ERODED...

EXIT

AT THE HEIGHT OF HIS DEPRESSION JAY REACHED OUT TO BILL, HIS STRIKE FORCE TEAM MATE.

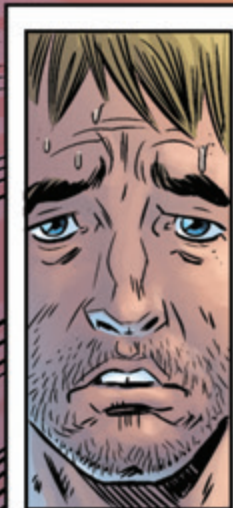
IT JUST SUCKS... THEY DON'T EVEN KNOW THE TRUTH...

MAYBE I CAN HELP...

PLAYING ON HIS WOUNDED EGO... JAY GAVE BILL ACCESS TO THE BUILDING'S MAINTENANCE NETWORK... NOT KNOWING THAT BILL WAS ONE OF THE MERCENARIES MANIPULATING HIM...



SIX MONTHS LATER:
THE TRAIL LED DIRECTLY
BACK TO JAY.



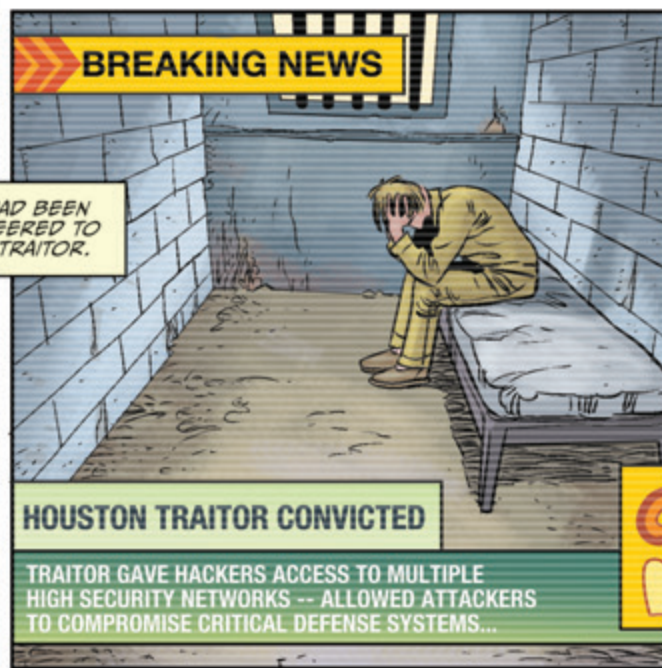
I DIDN'T
KNOW...

THE MERCENARIES HAD ALSO
RESHAPED THE WORLD'S VIEW
OF JAY THROUGH RADICALIZED
POSTS...



THAT'S NOT
ME! I DIDN'T
SAY THAT!

JAY HAD BEEN
ENGINEERED TO
BE A TRAITOR.



BREAKING NEWS

HOUSTON TRAITOR CONVICTED

TRAITOR GAVE HACKERS ACCESS TO MULTIPLE
HIGH SECURITY NETWORKS -- ALLOWED ATTACKERS
TO COMPROMISE CRITICAL DEFENSE SYSTEMS...

THE END

“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.

