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DEFENSE TECHNOLOGY SPECIAL

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## 20 Most Promising Defense Technology Solution Providers

The pulse of the defense industry has quickened over the years with the advent of several cutting-edge technologies. Change, volatility, and uncertainty are perennial challenges to the defense strategist and are likely to increase in the coming years. Formulating strategy in these conditions will test planners in the public and private sectors alike.

The past 20 years saw dramatic changes in the defense industry, even as some features endured, and the beginnings of an equally dramatic shift in economic power. It's a new era of national security. With this new era comes new opportunities for breakthroughs in technology to change the nature of defense and the challenges that come along with adopting them. Some of the most recent seamless Defense technologies that lead the industry into an outbound productivity are Aerospace technologies, Mobility, Cloud, Health IT, Cybersecurity, and Training/Simulation. Also, Asset management, Shipping and Invoicing, Counterfeit

Prevention, and Track and Trace enable organizations to deploy a complete, integrated defense solution that meets unique and changing business requirements.

The problems associated with emerging hybrid threats and weak or failing states are well known to policymakers and analysts, as they are central features in today's wars. Less obvious are the growing challenges to national influence that are associated with how analysts perceive and use the sea, air, space, and cyberspace. To help CCOs, CIOs, and CEOs find the right defense technology solution provider for their enterprises, our selection panel has evaluated hundreds of defense technology providers that own innovative technologies, in this space.

In our selection, we looked at the vendor's capability to fulfill the burning needs of cost-effective and flexible solutions to tackle complex challenges in the defense landscape. We present to you CIO Review's 20 Most Promising Defense Technology Solution Providers, 2014.

### Company:

REM Technology Consulting Services, Inc.

### Description:

From advisory services to autonomous cyber security systems, REMTCS specializes in next-gen technology development, artificial intelligence, cybernetics, and dynamic legal production and counterintelligence systems for its clients

### Key Person:

Richard E Malinowski  
Founder, President & Senior  
Enterprise Architect

### Website:

[www.remtcs.com](http://www.remtcs.com)

REMTCS, Inc.

## A.I. Driven Technology Leading Cyber Security

REMTCS, a Red Bank, NJ based company has been in operation for more than two decades, servicing the needs of the most widely known firms and organizations. Throughout that time, the company has amassed expertise in the areas of supercomputing, artificial intelligence (A.I.), and information security through their automated trading products and compliance consulting services. "We have combined and focused these areas of expertise in different ways, and we are changing the direction of cyber security towards intelligent automation," states Richard E Malinowski Founder, President and Senior Enterprise Architect, REMTCS. "We are increasingly focusing our resources to develop products that detect and mitigate threats faster than our adversaries can create and deploy them," he adds.

"In the cyber domain, the U.S. is admittedly outnumbered and outgunned," says Malinowski. There is a high level risk of digital attack. Many adversaries are utilizing a multi-level, business crime syndicate model to develop exploitation methods and some are using hordes of humans with the objective to infiltrate U.S. critical infrastructure, defense contractors and commercial entities for the purposes of intellectual property theft and to gain political and economic leverage. However, REMTCS is leveraging its extensive technology to support organizations to adopt and practice an offensively focused digital security policy. "We have created a game changing technology," he asserts.

The exclusive

features of REMTCS's products and solutions are protection against known and un-

**“Our products are designed to accomplish the objectives of protecting a system from IP theft, malware intrusions, persistent and insider threats, and zero day attacks”**


known malware or malicious code and microsecond response time. Other features include diagnostics, evidentiary reporting, data loss protection, network and host intrusion prevention and detection. "Our ANNI (Analytical Neural Network Interface) is a game changing fully integrated cyber security platform for REMTCS as well as for the customers," says

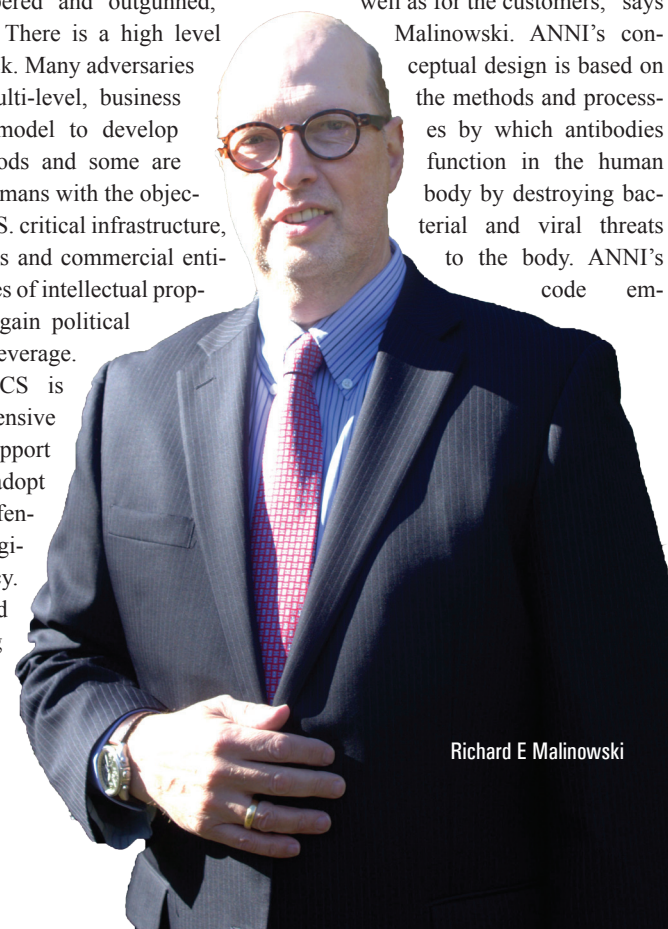
Malinowski. ANNI's conceptual design is based on the methods and processes by which antibodies function in the human body by destroying bacterial and viral threats to the body. ANNI's code em-

bodies the principles of armed antibodies. ANNI proactively analyzes and recombines the elements of malicious code and automatically, within seconds, attacks the new instances of malicious code and generates countermeasures that defend against future malware or its variants.

The company's product flagship organizational information security product offering, ProActive Security System, or PASS, utilizes ANNI to secure information networks, devices, and data. In the cyber domain where the environment is rampant with uncertainty and high variability, REMTCS also beefs up its services with secure vehicular platforms, automatically spawning and redirecting malicious traffic to virtualized networks in the event of a DDoS or other network based attack and resurrecting the entire network back to full operation within minutes. Several of the products and relevant solutions are all based upon the core engine, ANNI and replicate neural speed computing and human-like cognitive learning.

"We at REMTCS believe that, through the effective use of our proprietary A.I., DNA database, clustered and sequenced algorithms coupled with our behavioral analysis technologies, we can remove the human factor for the simple purpose of defending the threats faster than they can manifest," says Malinowski. The A.I. provides the ability to have the 'readiness' and continuous security response capability to defend against a force (digital attacks) with far more resources and at the same time maintain relevancy.

In the future, REMTCS plans to expand its product offerings and also bring profit to the company to develop new technologies and file new patents. "We are currently testing several AI based analytic engines for quantitative mathematics and for Big Data throughout the defense industry," says Malinowski. 



Richard E Malinowski

