



Kevin Cariker

is a 1986 Texas A&M graduate with a B.S. in Computer Science. He started his career with E-Systems Corp. in 1986 as a Software Engineer, and became a Raytheon employee in 1995 when Raytheon purchased E-Systems. Kevin is currently Raytheon Garland Division's Security Engineering Chief Engineer. In this role, he provides technical leadership for a team of 70 security engineers supporting 10 customer programs. Kevin also supports the development of custom security software applications, including on the Raytheon High-Speed Guard.

His first 12 years with E-Systems and Raytheon covered the whole software development lifecycle: architecture, design, code, module, integration, and verification. This background serves as a solid foundation for the security engineering work he began in 1997.

Kevin is currently a Certified Information Systems Security Professional (CISSP) and an Information Systems Security Engineering Professional (ISSEP).

INDUSTRIAL AFFILIATES PROGRAM

Distinguished Lecturer

K E V I N C A R I K E R

Tuesday, 13 September 2005

2:00 p.m., Room 124 HRBB

Security Engineering Challenges

ABSTRACT:

Security Engineering is a relatively new engineering discipline born out of the Internet explosion in the last 12 years. I will discuss several key difficulties related to security engineering, including

Formation of a new engineering discipline — Security Engineering encompasses many technologies and requires System, Software, Hardware, and Network engineering skills. Socio/political skills are often required, especially on government programs.

Creation of competent engineering staff — Being a relatively new discipline that requires a wide variety of skills presents staffing challenges.

Current adversaries — Who are we securing our systems against? I will discuss perspectives from both industry and government.

Technology overview — Security technology is a rapidly changing environment. We will discuss a few key technologies, both current and future, and also discuss where technology falls short.

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