The College of Security and Intelligence (CSI) is excited to have Nina Vajda as our Distinguished Cyber Intelligence and Security (CIS) Speaker on November 30th, 1-2pm, in the DLC Auditorium. Please mark your calendars for this event and we hope to see you at the venue! Information on Ms. Vajda and her talk at the DLC is given below.

Speaker: Nina Vajda

Nina Vajda is Honeywell Aerospace's Chief Engineer for Cyber Security. She is responsible for oversight of the development and implementation of security controls in embedded system architectures and networks for commercial transport and business / general aviation aircraft, space and defense equipment and satellite communications.

Prior to joining Honeywell, Nina spent many years as an industrial control systems and SCADA field engineer responsible for the secure commissioning and decommissioning of critical assets powering production drilling equipment in above and below ground mines, chemical plants, aluminum smelters and steel mills. She began her career in the Washington DC area as an electronics engineering consultant to the Department of Defense where she supported Certification & Accreditation activities on US Navy ships and submarines. Additionally, she served as the Chief Data Integrity Engineer to the National Aeronautics Space Administration (NASA) Engineering Safety Center (NESC) investigating the Space Shuttle Columbia disaster and achieving congressionally mandated of "Return to Flight" status by 2005. Nina is a registered Metal and Non-metal Miner and possesses the following professional licenses: Hazardous Materials Technician, CISSP, CISM, CRISC, and she is appointed by the DoD as a Fully Qualified Navy Certification Validator III.

Talk title: Symphonic Artistry of Aviation Cyber Intrusions

Talk abstract: Is it possible to develop the "Shazam" of Intrusion Detection and Prevention systems for The Connected Aircraft? Have you ever wondered…. "How does it do that so quickly? Or, why is it never wrong? And, how do they keep it up to date?" Shazam connects more than 1 billion people. "It took us 10 years to reach 1 billion tags, 10 months to reach 2 billion and 3 months to go from 10 to 12 billion." (Source: www.shazam.com→About Us).

This presentation will discuss aircraft network topologies including attack vectors, challenges associated with legacy systems, hardware design and common, known software vulnerabilities that create opportunities for attackers to exploit while aircraft parked at the gate, during taxi, takeoff and landing. We will explore various aviation cyberattack use cases, including the anatomy of an attack. Finally, we will discuss cutting edge technologies, specifically developed for the aviation industry to thwart targeted aviation cyberattacks.

Join us and help secure the connected aircraft of the future!

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