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**Background:** Dr. Thompson received his D.Eng. and B.S.E.E. from Morgan State University in 2003 and 1997, respectively. Prior to his tenure at the university, he worked at NASA Goddard Space Flight Center in Greenbelt, Maryland. At NASA, Dr. Thompson served as the PI for NASA Goddard Space Flight Center (GSFC) SDR Technology Program from 2005 to 2009 and designed a RF front end for a GPS receiver for Hubble Servicing Mission 2 in 2008. Dr. Thompson has over 15-years of experience in the areas of RF/microwave engineering and communication systems.

**Overall Research Goals:** Dr. Thompson serves as the Co-Director of the Center for Reverse Engineering and Assured Microelectronics (CREAM). CREAM leads the university's efforts in Internet of Things (IoT) Security Research, which includes the following areas: physical-level cyber-security, software and hardware reverse engineering, and secure embedded system design. IoT is the next evolution of the Internet in which our society will be a ubiquitous network of physical devices (things) ranging from smart homes, autonomous cars, critical infrastructures, and medical devices. The goal is to establish CREAM as a national center within the IoT space.

**Research Areas:**

- Embedded Hardware Assurance
- Embedded Cyber Operations
- Embedded Software & Firmware Design
- Software-Defined Radio & Cognitive Radio
- Signal Intelligence & Electronic Warfare Technologies
- Mobile Wireless Protocols
- Adaptive Transceiver Design
- Cognitive Radiometry