

William A. Craig

- 1960-1970** Began career by working in Dr. Wernher Von Braun's Astrionics Laboratory. Responsible for NASA's and the Army's Missile On-board Instrumentation such as C-Band Tracking Transponders, Command Destruct Receivers, UDOP Systems, Etc. Performed operational environmental testing/qualification of missile flight instrumentation systems. Established and operated/utilized antenna pattern range, anechoic chambers and vacuum chambers (to simulate outer space) for testing and evaluating missile antennas. Performed research on, designed, and developed missile antennas. Developed a self-tuning missile antenna to overcome the detuning effects of a missile re-entering the earth's atmosphere. For Thrust-Floated Gyro (TFG) Missile System Program, developed telemetry system, reduced/analyzed flight data and served as member of firing team at White Sands Missile Range.
- 1970-1973** Performed military Base Defense Systems Analysis for the Army Ballistic Missile Defense Agency (ABMA). Developed the methodology for optimizing the Strategic Air Command (SAC) Aircraft Bed-down and Offence Attack Strategy. Directed the development of a computer model for optimizing SAC Base Defense and Offense Strategy for SAC Attack (Developed algorithms for cumulative probability of detection for radars with large scan times, defense Pk, probability of offense success, intercept stockpile, etc.)
- 1973-1976** Supported the Ballistic Missile Defense Advanced Technology Center (BMDATC) Laser Research Program. Performed a study and wrote a paper on high-energy laser short pulse effects. Developed a high energy laser defense system computer model and performed tradeoff studies of system parameters such as output power, power density, optics diameter, pointing and tracking jitter, slew rate, thermal blooming and atmospheric turbulence. Developed a computer model ladar and analyzed endoatmospheric and exoatmospheric performance.
- 1976-1980** In 1976, became one of the charter members of the newly formed Missile System Software Center (MSSC) of the Missile Command's Research, Development and Engineering Center (RDEC). Was team leader responsible for software verification and validation for Pershing II, PATRIOT, IHAWK, ANTSQ-73, MLRS and Simplified Inertial Guidance-Demonstration (SIG-D) Systems. Personally managed the Pershing II Software V&V Program, which was one of the most successful in DoD. There were no software related flight failures in all of the Pershing II Flight Test Program.
- 1980-1984** For all of the Army Missile Command Systems, was responsible for Software Verification and Validation, Software/System Testing, Software

Configuration Management, Software Tool Development, Simulators, Hardware-in-the-loop Test Beds, Data Collection/Reduction/Analysis, Software Performance Evaluations, Software Development/Maintenance and Systems Interoperability Engineering and Testing.

1984 The Missile Command Life Cycle Software Engineering Center was established (Name was Battlefield Automation Management Directorate).

1984-1986 Served as Chief of the Software Engineering Division – Responsible for Software Verification and Validation, Software Configuration Management, Software Testing, Army and Joint Services Interoperability Engineering and Testing.

1986-1988 Deputy Director of the Army Missile Command Life Cycle Software Engineering Center (RDEC Battlefield Automation Management Directorate)

1988-Present Director of the Missile Command (now Aviation and Missile Command) Life Cycle Software Engineering Center (RDEC Software Engineering Directorate – SED)

During this time SED has established a world-class systems Interoperability Facility and capability and progressed to a Software Engineering Institute (SEI) Level IV Software Engineering Capability.

- Member of the Field Artillery Honorable Order of Saint Barbara
- Member of Air Defense Artillery Honorable Order of Saint Barbara
- Selected supervisor of the year in 1985 by the North Alabama Chapter of Federally Employed Women

EDUCATION:

BS EE - Mississippi State University

Honorary Doctor of Science – University of Alabama in Huntsville