

GSAW 2021 Tutorial C:

Architecture and Technology Considerations for Ground

Overview:

Increased awareness and understanding of:

- Networks
- Amazon Ground Station (AGS)
- Continuous Integration / Continuous Deployment (CI/CD)
- Agile Software Development
- Cloud
- Big Data and Data Mining
- Artificial Intelligence / Machine Learning

Instructors: Jim Anderson and Donald Town, The Aerospace Corporation

Biographies:

The instructor duo are senior members of the Aerospace Corporation technical staff. The average years of industry experience for the duo is over 40 years.

J. V. Anderson:

B.S. in Information Technology

Over 45 years' experience in all aspects of ground system acquisition and system engineering with emphasis in modeling and simulation; test planning, test definition and execution; requirements definition and analysis, system deployment, and operations.

D. E. Town:

Ph.D. in Applied Mathematics, Brown University

M.S. in Mathematics, The Ohio State University

B. A. in Mathematics/Physics, DePauw University

Over 35 years at the Aerospace Corporation with engineering experience in satellite ground system acquisition support, Independent Readiness Reviews, ground system engineering studies, and ground system test and integration support. Acquisition activities supported include software development and test and the development of requirements, operational concepts, and ground architectures. Ground system and software support for Aerospace Concept Design Center (CDC) Space Segment, System Architecture and Ground Systems Teams.

Description of Intended Students and Prerequisites:

Personnel responsible for the staffing, management, acquisition, development, and/or maintenance of ground systems. No specific ground system expertise is required. Material is DOD-centric.

What can Attendees Expect to Learn:

Exposure to tutorial material on topics of high current interest in satellite operations ground systems. Increased awareness of ground station functions, COTS, and current/future ground station design trends.