C5ISR

SYSTEMS DEVELOPMENT, INTEGRATION & TESTING

Point of Contact

Dennis Card
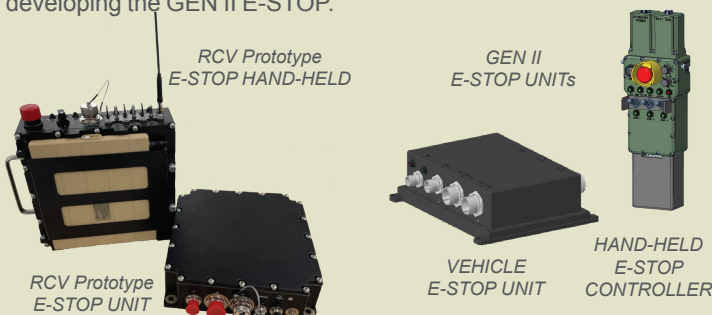
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DCS specializes in addressing challenging and complex engineering and management issues in defense systems Research, Development, Testing & Evaluation (RDT&E), acquisition, and sustainment. Core technology areas include platform electronics; ground vehicles systems; Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR); and active protection systems. We leverage our ISO 9001:2015-registered Quality Management System, CMMI Maturity Level 3 processes for systems and software development and apply our broad understanding of DoD 5000 acquisition process, program management strategies and product life-cycle support to meet increasing challenges in the acquisition and sustainment of complex military systems.
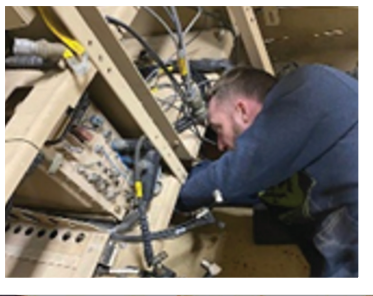
CAPABILITIES

DCS has designed, developed and integrated multiple A and B-Kit components in support of the U.S. Army's Capability Sets (CS), Integrated Bridge and Next Gen Tech Insertion (NGTI) / WIN-T Point of Presence (PoP) and Soldier Network Extension (SNE) mission equipment packages on 450 plus MRAP and M-ATV platforms for over 10 years. In addition, DCS continues to support CS integration of upgraded PNT system as well as Modernized Integrated Bridge Systems (MIBS) for Army Watercraft Systems (AWS) including 51 Vessel A-Kits with rapid integration and 25 Vessels MIBS A-Kits for LCU2000, LSV and LSV7. DCS is supporting Ground Vehicle Robotics programs for Rapid Development of advanced Emergency Stop (E-STOP) systems for Robotic Combat Vehicle (RCV)-Heavy and Medium, designed to MIL-STD-882E Leverages ExLF Operational Stop (O-STOP) development. DCS is currently developing the GEN II E-STOP.

DCS blends experience and innovation to deliver solutions and services to support the mission and goals of our customers. Our C5ISR system development services include:

- Requirements analysis, architecture design
- Agile system engineering design, development, integration, verification, validation and deployment
- Engineering analysis (SWaP-C, HFE, FEA, FMEA)
- Matlab, Simulink, SPICE circuit modeling & simulation
- Altium schematic & PCB Layout
- Creo CAD modeling and Windchil Product Life-cycle Management (PLM)
- MIL-STD-461 Electromagnetic Interference (EMI)/ Electromagnetic Compatibility (EMC) testing
- MIL-STD-810 Environmental Testing
- Antenna placement modeling & simulation coordination, Radiation Hazard support
- Spectrum Management Coordination, Development of Spectrum Supportability Risk Assessment (SSRA), and 1494s
- System Performance and First Article Testing (FAT)
- Specification and TDP Development (Level I, II & III)
- Training package development, New Equipment Training (NET)
- FSR and FSE Proving Ground Support (APG, EPG, YPG) for DT/OT

RCV Prototype E-STOP HAND-HELD

GEN II E-STOP UNITs

RCV Prototype E-STOP UNIT

VEHICLE E-STOP UNIT

HAND-HELD E-STOP CONTROLLER

STATE-OF-THE-ART FACILITIES

DCS facilities include state-of-the-art laboratories, SILs and High-Bays supporting customer R&D and prototyping efforts for the rapid prototyping, development and fielding of C5ISR systems and components. We make strategic investments Research and Development and laboratory equipment and facilities consistent with, or in anticipation of, customer requirements and needs.
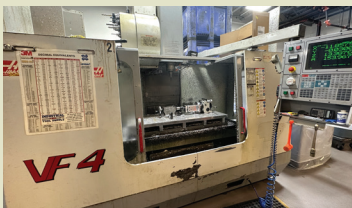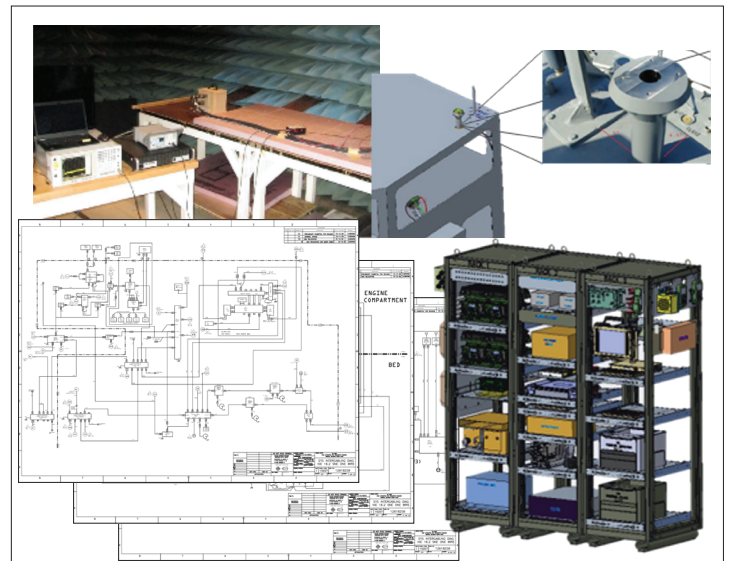

THE DCS ADVANTAGE

For over 30 years DCS has a trusted support partner providing C5ISR system development, integration and testing support to U.S. Army DEVCOM CCDC GVSC providing people and facilities to ensure the Readiness, and Modernization of the Army's ground vehicle and watercraft systems. The DCS emphasis on customer satisfaction and continuous improvement is evident in a corporate culture driven by employee empowerment, innovation, responsiveness, and professional excellence.

MIBS Vessel Integration
(LCU & LSV)

MAPS Platform Integration
(Bradley, AMPV, Stryker, Abrams)

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