SENSORS SYSTEMS

*Expert research engineers delivering new knowledge and capabilities*

Our research engineers create end-to-end solutions for complex sensor problems. These solutions range from fundamental R&D of sensor science, through the application of principles to create functional proofs-of-concept, and include the integration of solutions into payloads for flight test and tech transition. Our high-performance computing focus ensures that solutions are tailored toward real-world applications.

AREAS of EXPERTISE

- **SENSOR TEST AND EVALUATION**
  sensor systems design and prototyping (EO, IR, RF, SAR, LiDAR, Video)

- **OPEN SOFTWARE ARCHITECTURES**
  OMS, SOSA, OSUS

- **REAL-TIME SYSTEM IMPLEMENTATION**
  heterogeneous computing architectures, real-time algorithm implementation, FPGA, GPU

- **PAYLOAD INTEGRATION AND FLIGHT TEST SUPPORT**

- **EMBEDDED SENSOR PROCESSING**

- **REVERSE ENGINEERING**
SOFTWARE INFORMATION SOLUTIONS

Experienced systems integrators creating and tailoring solutions to meet customer needs.

Our researchers and engineers create complete software solutions of algorithms and exploitation/visualization tools. We work with a diverse clientele and are experienced in many areas including image/data processing, machine/deep learning, big data, virtual/augmented reality, cyber security, situational awareness, interoperability, high performance computing, sensors, and next generation manufacturing.

AREAS of EXPERTISE

• SOFTWARE SOLUTIONS
  application design, data visualization, Internet of Things (IoT)

• INFORMATION PROCESSING AND COMPRESSION
  EO, IR, radar, hyperspectral, LiDAR, video

• HUMAN MACHINE TEAMING
  augmented reality/virtual reality, interface design

• IMAGE PROCESSING/MACHINE VISION

• MACHINE/DEEP LEARNING, ARTIFICIAL INTELLIGENCE

• CYBER SECURITY