



Overview

Commonwealth Technology, Inc. (CTI), a MacAulay-Brown, Inc. company, has served our customers for more than 50 years, delivering technical tradecraft inspired solutions supported by our experience in analysis, design, reverse engineering, fabrication, assembly, testing and operational training. CTI facilities, in Alexandria, offer combined engineering and lab spaces to support a wide range of prototyping, manufacturing, testing and mission support

activities. Our Integrated Technology Center (ITC), in Sterling, VA, is uniquely equipped to accommodate larger scale systems development. With multiple SCIF and SAPF spaces, we manage simultaneous projects across security levels to TS and beyond.

CTI's three secure facilities in the National Capital Region are specially configured to facilitate rapid product design, manufacturing, integration and testing from small electronic circuits to large machinery.

- Multiple SCIF and SAPF Spaces
- Electronics and Assembly Labs
- Secure Storage Areas
- Engineering Areas/Conference Rooms
- Machine, Model and Wood Shop
- Plastics/Composites Fabrication Areas
- Environmental Testing Lab
- High Bay Areas
- Administrative Offices

AES



Advanced Electronic Systems

- Integrated SIGINT Platforms
- Hybrid Cyber Solutions
- Antenna Systems
- Information Management and Visualization

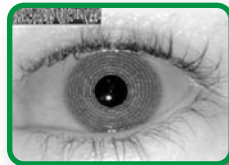
MLS



Mission and Logistics Solutions

- Denied Area Access and Persistence
- Material Acquisition and FME
- QRC Design to Deployment
- Training

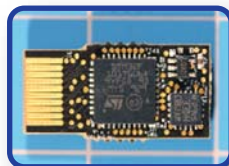
SIS



Sensor Integration Solutions

- Surveillance and Collection Systems
- C4ISR
- Engineered Finishes and Camouflage
- Environmental Testing

TTL



Tagging, Tracking and Locating

- Tracking High Value Assets
- Personnel/Force Protection
- Information Management and Networking
- Data Display

Alexandria, VA

5875 Barclay Drive
Alexandria, VA 22315-5709
703.719.6800

Corporate HQ

4021 Executive Drive
Dayton, Ohio 45430
937.426.3421

National Capital HQ

1953 Gallows Rd., Ste. 590
Vienna, VA 22182
703.761.0770

MacB POC

marketing-comms@macb.com
www.macb.com

Laboratory Space

More than half of our nearly 70,000 sq. ft., TS cleared, facility is dedicated to prototyping, manufacturing, testing and training labs which are optimized to support our core lines of business.

Lab Function

Supporting Tools and Infrastructure

Prototyping

Environment for integrated product development teams to evaluate concepts and quickly deliver solutions to the field

- Engineering CAD tools for modeling, simulating and virtualization:
 - Systems (Matlab)
 - 3D mechanical systems (Inventor and SolidWorks)
 - Electronics (Altium)
 - Finite Element Analysis (Ansys)
 - Fluid Dynamics (CFD)
 - Electromagnetics (HFSS)
- Reverse Engineering with FARO arm, XRAY inspection and optical comparators
- PCB prototyping tools (LPKF) for circuit and antenna prototypes
- 3D printers (multiple technologies and materials)
- Laser cutters and etchers, WaterJet

Manufacturing

Dedicated space to produce hardware systems ranging from small numbers to hundreds

- Comprehensive machine shop (milling, turning, EDM)
- Automated PCB population, wire harnesses, RF cables and lithium battery packs
- Composite materials from wood to carbon fiber
- Injection molded and vacuum cast plastics
- Finishing including paint, powder coat and accelerated aging

Testing

Combination of environmental and operational testing

- Metrology lab for quality control
- Temperature, humidity and salt fog chambers, ESD
- Shock, drop and vibration systems
- Accelerated UV testing, submersion and altitude simulation
- 40 GHz RF network analyzers, high bandwidth scopes, automated test systems (National Instruments)

Training

Simulate real-world operator training environments

- Flexible high bay spaces to create mockups and observe operator performance