



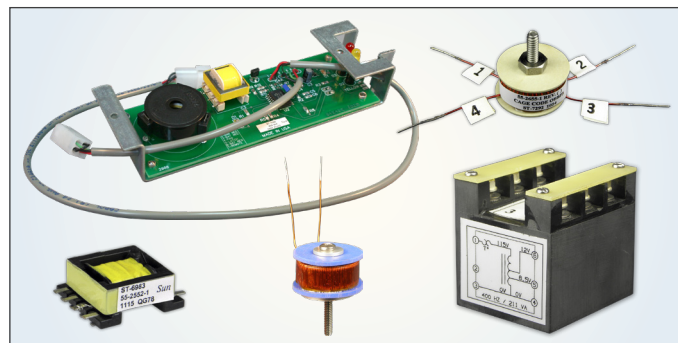
# BACKGROUND & CAPABILITIES

STC, Inc. provides advanced-turnkey manufacturing and engineering services for a wide range of electronics applications, including **aerospace, defense, high-reliability commercial** and **industrial**—and manufactures custom **transformers** (up to 10 KVA), **inductors**, and **coils**. Our focus is on low to medium-volume assemblies with a high degree of complexity.



## Areas of Expertise

- Transformer, Coil, Inductor, and Power-Supply Design and Manufacturing
- PC Board Design, Manufacture, Assembly, & Test
- Build-to-Print and Contract Manufacturing of Magnetics, Circuit Boards, Cabling, & Assemblies
- Embedded software development
- Circuit Board Layout and Design Assistance
- Cable/Wire Harness Design and Fabrication
- Electronic-Packaging Design and Integration



Product Configuration Examples



Automatic winding of bobbin-wound coils



Surface-Mount Production Line

## Facilities & Equipment

- 27,000 sq. ft. facility includes Production, R & D, Engineering, Communications, Quality Assurance, Purchasing, and Administrative departments
- Design software (AutoCAD, PCB-CAD, and Custom-Designed Applications)
- Production equipment includes:
  - Computer-Controlled Multi-Axis and Manual Coil Winding Machines
  - Large Coil Winding Machines (up to 15 KVA capability)
  - Toroid Winding Machines
  - Cable Processing Machines
  - Automatic Soldering Machines
  - Automatic Transformer Test Fixture
  - SMT Equipment: Pick & Place, Reflow Oven (RoHS), and Deflux System
  - Environmental Test Equipment: Multiple Environmental Chambers

## Expertise Summary

- Over 30 years in business—focused solely on magnetics and electronics manufacturing
- Primary customers are involved in the following applications:
  - **Aerospace:** Navigation and avionics equipment for fixed-wing and rotary-wing aircraft; External and internal aircraft lighting
  - **Military:** STC is an ITAR registered magnetics and electronics manufacturer.
  - **Marine:** Vessel navigation instrumentation; Marine beacons and electronics
  - **Medical:** Patient monitoring equipment; Wound-care electronics
  - **Communications:** Radio transmitters; tower beacons
  - **First-Response and Transit:** Traffic-signal priority systems; Automatic Vehicle Location systems; Real-time GNSS-based RF control systems
- Lead technical staff members have over 70 years combined experience and hold degrees in Electrical Engineering, Aerospace Engineering, Computer Science, and Physics.
- Systems-&-Software development experience includes: Embedded firmware, GIS mapping and real-time vehicle monitoring, SQL data collection, .NET framework, Linux, and TCP/IP network communication



## Codes

- **Corporate Status:** Corporation
- **NAICS** (North American Industrial Classification System):
  - 334416 – Electronic Coil, Transformer, and Other Inductor Manufacturing
  - 335311 – Power, Distribution, and Specialty Transformer Manufacturing
  - 334418 – Printed Circuit Assembly (Electronic Assembly) Manufacturing
  - 335931 – Current-Carrying Wiring Device Manufacturing
  - 334419 – Other Electronic Component Manufacturing
  - 335999 – All Other Miscellaneous Electrical Equipment and Component Manufacturing
- **SIC** (Standard Industry Classification):
  - 3643 – Current-Carrying Wiring Devices
  - 3612 – Transformers, Except Electronic
  - 3677 – Electronic Coils, Transformers, and Other Inductors
  - 3679 – Electronic Components, NEC
  - 3672 – Printed Circuit Boards
- **CAGE** (Commercial and Government Entity): 0BBP3
- **DUNS** (Dun & Bradstreet): 150412229
- **FSC** (Federal Supply Codes): 5950 - Coils and Transformers; 5998 - Electrical and Electronic Assemblies, Boards, Cards, and Associated Hardware



## Representative Customers

- Leonardo DRS
- Honeywell Aerospace
- Genesys Aerosystems
- Vitamix
- Century Flight Systems
- Garmin (Aviation)
- SPX Corporation
- GatesAir
- Moog Inc.
- Nortech Systems
- dormakaba Group
- NEO Tech
- Cobham Advanced Electronic Solutions
- Flextronics International
- Aclara Technologies
- Benchmark Electronics
- Advanced Micro Controls, Inc. (AMCI)