

CONTACTS

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**ISO
9001:2008
Registered**

THE COLUMBIA GROUP
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The Columbia Group, Marine Engineering Division facility in Panama City Beach, Florida includes a state-of-the-art electronics shop that designs and fabricates:

- ▶ Circuit Board Assemblies
- ▶ Underwater Cable Assemblies
- ▶ Underwater Electronic Canisters
- ▶ Control and Display Units
- ▶ Communication Systems
- ▶ Custom-Built Computers
- ▶ Navigation Systems
- ▶ VME Chassis Modifications
- ▶ Programmable PIC Chips
- ▶ Operator Interfaces

Our capabilities also include rapid prototyping.

Our technicians are certified to J-STD-001 (soldering of electronic assemblies) and IPC-A-610 (inspection of electronics assemblies), and trained on fiber optic termination. Our electrical engineers are experienced with:

- ▶ Design to military requirements using ISO 9001 procedures
- ▶ Design schematics using AutoCad
- ▶ Printed circuit board design using Altium Designer or Eagle software
- ▶ Electronic assemblies using Solid Works 3D software
- ▶ PIC software programming
- ▶ Single board computer Dynamic C programming
- ▶ Object Orientated software programming using LabView

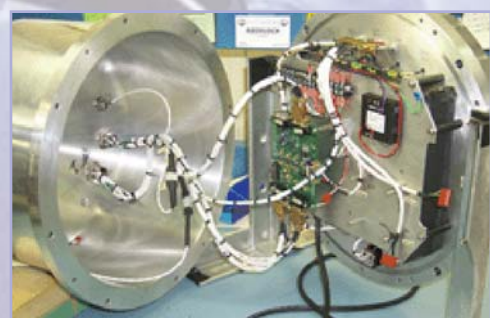
Our electronics shop is an approved vendor for Lockheed Martin. We can provide a wide range of services from building individual components to providing complete systems and vehicles.



Electronics Lab



Dolphin Class SDV Pilot and Copilot Displays



Dolphin Class SDV Display



Dolphin Class Integrated Bridge System



Pluto Plus ROV