

Colorado Digital Labs, Inc.

Precision Product Engineering & Development Resources

(800) 806-4908

www.cdltek.com

Colorado Digital Labs, Inc. is a research and development company providing everything you need for building electronic and computer based components, products, and instruments. Saving you time and money, CDL delivers quick-turn engineering services to get your design into production fast.



***We transform your
product ideas***

← ***from concept
to production*** →



We design and build what you can't buy...

Mechatronics & Mechanical	Single Chip Applications	Portable Applications	Scientific & Industrial	Medical Applications	OEM & Consumer
<i>Motion Control</i>	<i>Embedded RTOS</i>	<i>Mobile Apps</i>	<i>Data Acquisition</i>	<i>Imaging</i>	<i>Video & Audio</i>
<i>Robotics</i>	<i>Consumer Goods</i>	<i>Wireless RF</i>	<i>Process Control</i>	<i>Perioperative</i>	<i>Networks</i>
<i>CNC / CAM</i>	<i>Photonic Devices</i>	<i>Measurement</i>	<i>Instrumentation</i>	<i>Telemetry</i>	<i>Security</i>
<i>3D Printed Parts</i>	<i>Distributed IoT</i>	<i>Remote Sensing</i>	<i>Aviation & Spacecraft</i>	<i>Diagnostics</i>	<i>Alternative Energy, SPV</i>
<i>Molded Parts</i>	<i>Networked Sensors</i>	<i>Telematics</i>	<i>Power Control</i>	<i>Database</i>	<i>Education</i>

Electronic Hardware Design

From functional specification to printed circuit boards and more, Colorado Digital Labs does it all. Our advanced design tools provide quick turns to meet aggressive schedules and keep costs low. Our digital, analog and RF design experience ensures manufacturability, reliability and conformance to all domestic & international regulatory standards.

Programmable Logic & Programmable Integrated System Design

Colorado Digital Labs uses VHDL & CUPL based logic design synthesis for a variety of programmable components, from simple PLD's to large FPGA devices. This allows high bandwidth algorithms and machines to be implemented for maximum system throughput. These devices allow significant system cost / performance gains and provide a migration path to custom silicon for high volume manufacturing.

Software & Firmware Design

We use object-oriented languages such as C#. Our code development environments include Open Source RTOS, LINUX, MS Visual Studio and Vendor Specific tool chains. All software that we generate is structured, modular, extensively tested and documented.

Mechanical Design

Colorado Digital Labs provides 2D & 3D mechanical design services for machine development, test fixtures, instrument enclosures, high vacuum components, photonic assemblies, 3D printed parts and more. We create precision motion control systems for instruments, optical and mechanical assemblies. By combining sensors, microcontrollers and real time software algorithms with precision machined parts, we build advanced mechatronic devices that deliver unparalleled performance at a remarkably low cost.

Development & Support Services

We offer a complete range of services that get you to mass production and beyond for the life of your product. This includes: Engineering Project Management; Specification Development; System Architecture Development; Technology Evaluation; Purchasing & Alternative Component Selection; Prototype Development; Regulatory Compliance; Contract Manufacturing; Customer Technical Support and DoD Provisioning & Technical Manual Preparation.

Platforms & Technologies

The following table lists some of the processor and system component vendors we have utilized in developing customer applications.

Advanced Micro Devices	Advanced RISC Machines	ST Microelectronics	Cypress Semiconductor
Intel	Microchip	Motorola	NXP Semiconductor
Renesas	Texas Instruments	Xilinx	Zilog

Backplanes & Sockets: PCI, Compact PCI, PC-104, PCMCIA, SCSI, VXI-VME-Euro, ISA & More

Interfaces: Ethernet, SATA, AUI, CAN, ARINC 429, T1/E1, IEEE 488/1284/1394, RS-232/485/488, Modbus, USB, I²C, SPI, McBSP & More

About Colorado Digital Labs, Inc.

Since 1990, Colorado Digital Labs has been providing research, development & engineering services to clients in the U.S., Europe and East Asia. Our clients rely on us to complement their existing engineering resources or we can accomplish all their entire product development activities. We also provide contract manufacturing and supply chain logistics. Please visit www.cdltek.com for a comprehensive look at the precision engineering capabilities we offer.

Contact us today to find out how we can save you time and money on your current or future project.

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