



Introduction

Sirius Microtech LLC provides design services for

- Electronic Product development
- Embedded System Custom Hardware designs
- FPGA and CPLD based board designs and programming
- Firmware Designs and programming
- Software designs and programming
- Prototype and Proof of concept designs

Electronic Product Development

We are very experienced in New product development using state-of-the-art, bleeding edge technology that gives our clients strategic advantage among competition. We design electronic products of varying sizes and complexity from hand held devices to huge machine controllers with multiple axes of motion, machine vision and Real time processing power using latest *Microprocessors, micorcontrollers, FPGAs, DSPs, CPLDs*. We are authorized design partner with Microchip Technologies.

Embedded System Custom Hardware designs

We undertake electronic sub-module design work for your end product based on your technical specifications. We are experienced in developing modules that are network ready using *Ethernet, I2C, SPI, USB, RS232 and RS485*. We have developed single board computers for specific usage using *ARM7TDMI, ColdFire, DS80C400 and MAXQ2000* to name a few. We are authorized design partners with Microchip Technologies. We use the whole lineup of advanced devices from Microchip.

FPGA design and Programming services

We undertake FPGA and CPLD design and programming work from the conceptual stage to implementation. We Program, Simulate and test our designs for functional and timing constraints to meet the technical requirement specifications. Our experienced designers are capable of developing IPs for clients as well as use standards based IP cores in designs. Our programmers are very good at *VHDL, Verilog and AHDL* programming. We place emphasis on the test case programs and build self diagnostics features in everyone of our designs.

Firmware Designs and programming

We undertake Firmware designs for board that you may have acquired from third party design houses. We specialize in porting Real Time Operating systems to specific hardware platform. We write concise, time and mission critical code, standards compliant code that implements your technical specifications and helps you beat the competition in time to market. We extensively use *C, C++, Java and Assembly* languages to get our Firmware up and running in no time. We also use sophisticated debugging tools and methodologies that waste no time in board startup problems.

Software designs and programming

We undertake Software design work that implements PC based control front end and networking of machines and sensors. We have developed software using *.NET, C#, C++, Java and web technologies* for excellent machine control applications. We pay extra attention to details from our client and implement every detail of the technical requirement.

Prototype and Proof of concept designs

We are a research oriented organization that takes up an idea on the paper and proves it's technical feasibility with proper documentation. We have done research on Office and Factory automation, Optical engineering, MEMS based sensors, Wireless sensor networking framework etc. We are meticulous in documenting our steps and the results of all our research and deliver to our client an authoritative result. We also undertake the implementation of the design if the concept were to be proven feasible.

Please give us a call for a free two hours to discuss your specific requirement. We will be glad to assist you.

Sirius Microtech LLC

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