



SiGenix

innovative technical solutions of the highest quality
SiGenix



Who we are

We provide external engineering services to successful companies and other technology innovators...

...with a focus on product design and development.





Company Background

- Established in 1997
- Associates are skilled in all facets of product development:
 - Hardware
 - Software
 - Mechanical Packaging
- Average 18 years of industry experience



Typical Services

- Power supply design
- Microprocessor & DSP design
- CPLD / FPGA design
- PC based application development
- Embedded system development
- Communications and networking systems design



Power Supply Design

- Medically approved power supplies
- DC to DC converters
- Battery chargers
- Universal AC or DC input voltages
- PFC AC front ends
- Supplies designed to agency approval standards (i.e. UL, VDE, and CE)



Microprocessor & DSP Design

- Data acquisition systems
- Motor control (μ P & DSP Based)
- Communications networks / systems
- Microprocessor application analysis

Intel

Siemens

Motorola

Microchip

Atmel

Renesas



CPLD / FPGA Design

- Custom state machines and controllers
- Logic reduction
- Microprocessor arbitration control
- Provide complete design & product documentation



PC Application Development

- Windows
- Visual Studio, Visual Studio .NET
- C, C++, Visual Basic, LabView, Java
- COM, Active X, ADO/ODBC, MFC, STL, ATL
- TAPI
- Database design and development
- InstallShield / Wise Installation System
- Complete documentation



Embedded System Development

- C++, C, Assembler
- QNX, VRTX, DOS, UNIX/Linux, OS9, custom kernels
- Full range of 8, 16, and 32 bit embedded processors and controllers
- Extensive “debugging” experience using the latest tools (i.e.. logic analyzers, ICE)



Communications / Networking

- TCP/IP
- Industry standard interfaces: RS232, RS422, RS485, USB 2.0, etc.
- Development of custom protocols
- Reverse engineering of existing proprietary protocols
- Data security



Manufacturing

- Small and large volume capabilities
- Domestic and overseas alliances
- Partial to full turnkey solutions
 - PCB assemblies
 - Box builds
 - Full test fixturing
 - Production documentation control



Value Analysis / Value Engineering

Provide engineering design analysis to reduce product costs

Example: Customer faced with sole sourced system that could not grow to meet their needs. SiGenix reverse engineered proprietary off-the-shelf system creating manufacturing independence

Benefits:

- *Significant cost reduction*
- *Ability to control product expansion*



Obsolescence Recovery

Redesign products with updated technology to eliminate obsolescence issues

Example: Customer faced with product termination due to component obsolescence. SiGenix redesigned the product using current multi-sourced technologies.

Benefits:

- *Functionality remained the same*
- *Backward compatibility*
- *Cost reduction*



Turnkey Solutions

Design, certify, and manufacture products

Example: Customer required a product to supplement current system. SiGenix provided a turnkey solution.

Benefits:

- *Proven and reliable design*
- *Test fixture for product*
- *Off-shore manufactured product*
- *Product delivery 16 weeks ARO*



Why external engineering?

- Accelerate time to market
- Ensure the most effective use of your engineers
 - Engineers focus on core competencies rather than extraneous/one time technologies
- Manage peak demand

Why Select SiGenix?

- 100% project completion success rate
- Experienced, highly productive engineers
- Innovative and responsive approach
- Many years of diverse experience
- Long-term client relationships



SiGenix

We strive to achieve the highest level of customer satisfaction by providing innovative technical solutions of the highest quality in a timely manner.