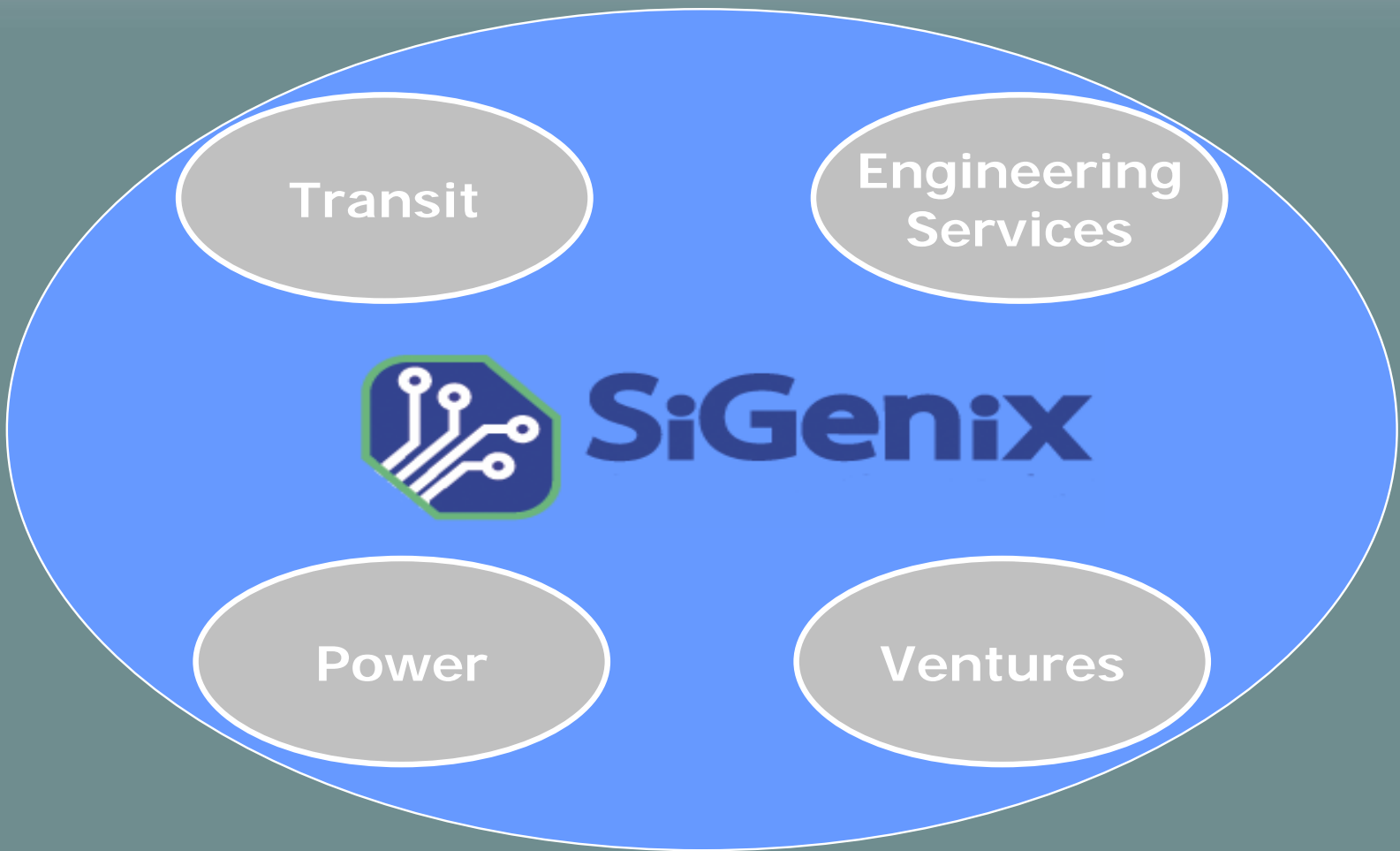




SiGenix

innovative technical solutions of the highest quality
SiGenix



Transit

Engineering
Services

Power

Ventures



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
- Technical staff is highly experienced



Engineering Services

- Engineering design solutions for specific customer requirements
- Services include:
 - Complete design capabilities
 - Prototype, testing and certification
 - Domestic and off-shore manufacturing
- Expertise in medical and transit product development



Ventures

- Provide technical advise and product development for venture ideas
- Increase success rate for investors
- Take equity positions to reduce development costs
- Provide manufacturing capabilities to take the venture idea into production either domestically of overseas



Power

- Design and manufacture high-performance power supplies
- Medical and industrial grade
- Design licensing agreements
- IEC-601, UL-2601, UL-950, UL-1310
- Domestic and off-shore manufacturing



Transit

- Design products for transit suppliers and port authorities
- Redesign of obsolete products
- Development of testers and simulators
- Cable harness manufacturing
- Fail-safe hardware and software design
- FMEA analysis



Technical Background

- Power supply design
- Microprocessor & DSP design
- CPLD/FPGA design
- Analog & digital circuit design
- PC based applications development
- Embedded systems development
- Communications and networking
- EMI reduction techniques
- Compliance to certification standards



Power Supply Design

- DC to DC converters
- DC to AC inverters
- Battery chargers
- Universal AC input voltages
- DC input voltages to 750V
- Wattages to 20KW
- UL, VDE, and CE approvals



Microprocessor Design

- Data acquisition systems
- Embedded microprocessors including:
 - Intel
 - Freescale
 - Siemens
 - Microchip
- Motor control
- Communications systems



CPLD/FPGA Design

- Custom state machines and controllers
- Logic reduction
- Microprocessor arbitration control



PC-Based Applications

- Windows
- Visual Studio/Visual Studio.NET
- C, C++, C#, Visual Basic, Java, XML
- COM, Active X, ADO/ODBC, MFC, ATL
- TAPI
- Database design and development
- InstallShield/Wise Installation



Embedded Systems

- C + + , C , Assembler
- QNX, VRTX, DOS, UNIX/Linux, OS9, custom kernels
- Full range of 8, 16, and 32 bit embedded processors
- Extensive debugging experience with oscilloscopes, logic analyzers, ICE



Communications and Networking

- TCP/IP
- RS232, RS422, RS485
- Development of custom protocols
- Reverse engineering of existing proprietary protocols
- Data security



Manufacturing

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



Project Experience

- Medical devices
- Industrial control systems
- Transportation product design
- Re-engineering of legacy products
- Product redesign for reliability & cost
- Safety critical/fail-safe software design
- Fail-safe hardware design
- PC software products
- Communications protocol design



Key Alliances

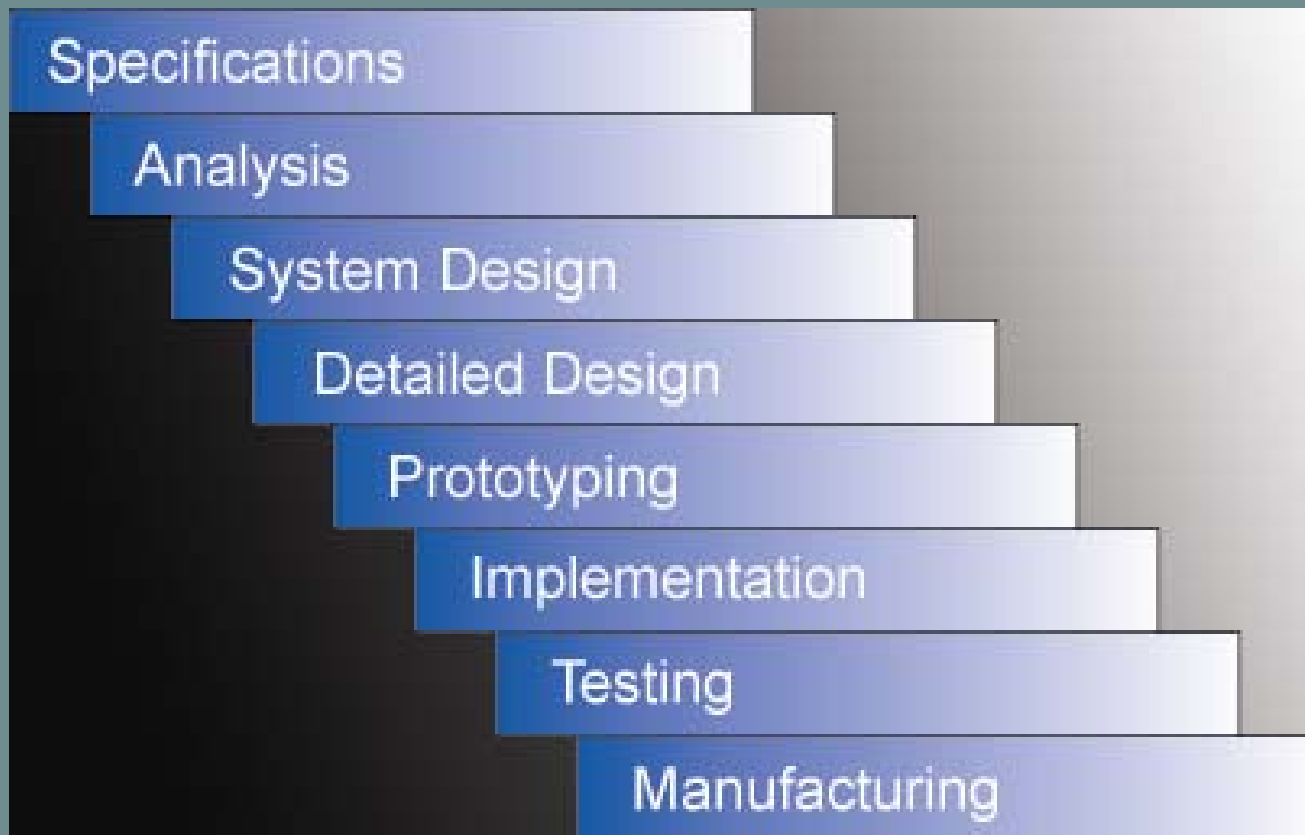
- Approved consultant - Microchip
- Approved consultant - Freescale Semi
- Arrow Electronics Contract Engineering Services (ACES) Partner
- ICE Components - Power Supply Development and Manufacturing Partner
- B&C Transit Consultants – Transportation Product Development Partner

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Services That Span the Product Development Cycle





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.