



Venture Technologies, Inc.

Product and Technology Development

Who is Venture Technologies

Venture Technologies has over 20 years' experience designing and developing innovative products that analyze, detect, measure, control, and communicate.

Why Venture Technologies

Whether you require a complete design team, a focused cost-reduction program, or augmentation of your internal staff, we are committed to helping you achieve your product goals—on time, within budget, and with optimal unit cost and volume scalability.

Our clients choose us because we:

- Demonstrate product and technology expertise
- Have a track record of delivering innovative solutions
- Have over 20 years of product development experience
- Use a system architecture platform approach
- Apply a proven product development process
- Design for low unit cost
- Focus 100% on your success
- Offer Skilled and experienced development teams

We have earned our reputation for innovation and design success by consistently exceeding client expectations and delivering products and services that impact their bottom line.

Who We Serve

Venture Technologies has helped hundreds of companies bring new and innovative products to market. Markets include:

Industrial	Commercial
Consumer	Medical
Life Sciences	Governmental

Services

Product design	Wireless design
System architecture	Cost reduction
Design reviews	Prototyping

Development Capabilities

Electronic engineering
Software engineering
Mechanical and industrial design
Engineering specialties

Core Expertise

System-level design and architecture
Analog and digital hardware engineering
Software engineering and architecture
Mechanical and industrial design
Wireless design
Signal processing
Sensing, optical, and electro-mechanical devices
Power and battery management

Our designs consistently make a difference for our clients!

Venture Technologies, Inc.

85 Rangeway Road, Building 1

North Billerica, MA 01862

Phone: (978) 667-9890

Email: Bizdev@venturetechnologies.com

www.venturetechnologies.com



Venture Technologies, Inc.

Applications and Technologies

Venture application experience

- Test & measurement instrumentation
- Temperature and pressure
- Chemical and gas detection
- Light and color measurement
- Magnetic applications
- Biometric instruments
- Chromatography
- Reflectometry
- Pyrometry
- Spectroscopy
- Wireless instruments
- Wireless sensors
- Portable battery operated products
- Chip-on-board design (COB)
- Internet appliances
- Voice recognition
- Voice synthesis
- Automatic test equipment
- Process controls / industrial controls
- Opto-electronics
- Displays (LCD, LED, VF, CRT, others)
- Motor and solenoid control
- Power supplies, UPSs
- Battery chargers (all chemistries)
- Communications transceivers
- GPS, Loran
- Battery charging
- Signal processing
- Image recognition
- Thermal conductivity
- Capacitive gauging
- Capacitive pressure sensing
- Robotics
- Liquid control
- 2D Bar code reader
- Magnetic card reader

Technology experience

- Microcontrollers (8, 16 and 32 bit CISC/RISC)
- DSP's
- FPGA's
- A/D 8-bit to 24-bit
- D/A 8-bit to 16-bit
- Low level, low noise signal conditioning
- Sensor interface circuits
- Motor control and interface circuits
- Power supply circuits
- CMOS imagers
- Thermocouples
- Thermistors
- RTDs
- LED's
- LCD's
- Graphics displays
- Touch screens
- Keyboards
- Stepper motors / brushless DC motors
- Pressure sensors
- MEMs sensors
- Wireless sensors
- USB, Ethernet, device drivers
- Embedded internet networking
- Switching power supplies, inverters
- Battery charging, UPS's
- High voltage supplies - AC & DC
- FEA (Cosmos)
- TAS (thermal analysis)
- VxWorks, RTX, CMX, QNX
- Linux, FreeBSD, Windows CE
- Strain gauge, piezo sensors
- Refrigeration & thermal electric coolers
- Infrared detectors
- UV sensors

Venture Technologies, Inc.

85 Rangeway Road, Building 1

North Billerica, MA 01862

Phone: (978) 667-9890

Email: Bizdev@venturetechnologies.com

www.venturetechnologies.com



Venture Technologies, Inc.

Engineering Design Skills and Specialties

Electrical Engineering

- Analog and digital hardware design
- Measurement & control interface circuits
- Analog circuit design
- A/D and D/A circuits
- Motor control design
- DSP based designs
- Microprocessor and peripherals design
- High speed digital design
- Mixed signal design
- ASIC design / FPGA design
- Schematic capture and PCB design
- Logic design and verification
- Voice recognition
- Speech and sound synthesis
- RF wireless design
- Power supplies (watts to megawatts)
- Battery selection and charging
- Custom ASIC design

Software Engineering

- Software engineering and architecture
- Embedded application development
- Operating system development – including real-time
- Windows & Linux operating systems
- Standard and custom multi-tasking real-time operating systems (RTOS)
- Windows/GUI application development
- PC-based software (desktop and embedded)
- Communications software
- Web based interface design
- Windows drivers
- High reliability Linux based systems
- Communications protocols
- Internet appliances

Mechanical and Industrial Design

- 3D CAD modeling
- Electronic packaging
- Electro-mechanical devices
- Rapid prototyping
- Tooling
- Finite element analysis
- Metals, plastics and ceramics
- Surface treatments
- Manufacturing & production methods
- Thermal analysis
- Fluid dynamics analysis
- Industrial design
- Precision mechanisms
- Ergonomic analysis and design
- Thermal engineering
- Optics engineering

Engineering Specialties

- Magnetics
- Chromatography
- Reflectometry
- Spectroscopy
- Integrated circuit design
- EMC
- EMI
- Thermal simulation
- Precision and high volume optics
- Ceramics
- Chemists
- Regulatory experts (UL, FDA, CE, other)
- High voltage
- CRT's
- Video algorithms
- Precision capacitive sensing circuits
- PLC programming
- Digital audio

Venture Technologies, Inc.

85 Rangeway Road, Building 1

North Billerica, MA 01862

Phone: (978) 667-9890

Email: Bizdev@venturetechnologies.com

www.venturetechnologies.com