

Medical Device Technology Services

VPI Technology Group is an electronic product design and development company with extensive experience in engineering, testing and certification, manufacturing, and fulfillment. With our expertise in electrical, mechanical, firmware, software, and manufacturing engineering, VPI has a proven record of successful design, development and manufacture of medical devices with exceptional quality and functionality.

Core Capabilities

- Sensors
- Custom Measurement and Monitoring System Designs
- Imaging Technologies
- Wireless Communication (Wi-Fi®, Bluetooth®, Zigbee®)
- Power Management

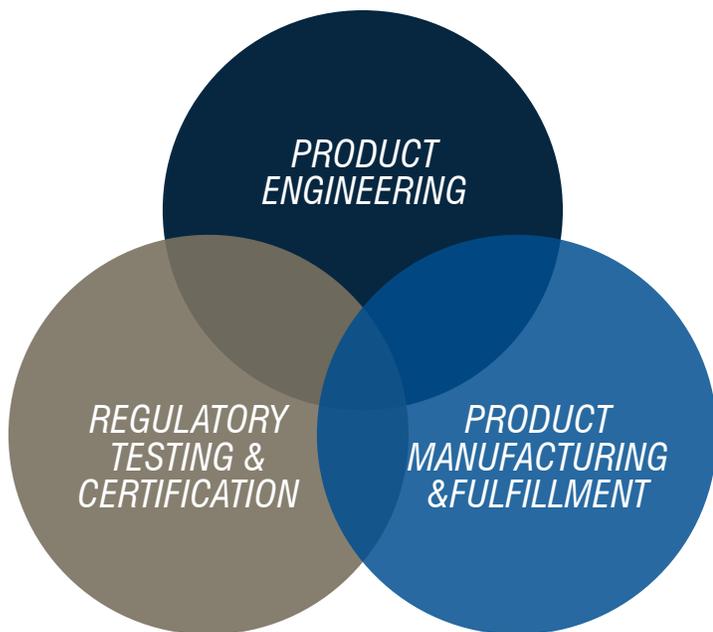


Past Experience

VPI has designed and developed medical devices used in the following fields:

- Cardiovascular Devices
- Combination Devices
- Dental
- Digital Health
- Drug Delivery
- Ear/Nose/Throat
- Gastroenterology/Urology
- Gynecology
- Imaging Systems
- In Vitro Diagnostics
- Mobile Health
- Oncology
- Orthopedic Devices
- Radiology/Imaging
- Respiratory
- Surgical Devices





- VPI integrates engineering, testing/regulatory requirements, and manufacturing for companies needing our full services to complete their product and pushed out to market.
- Exhibiting rigor, VPI's product development process shows consistency and efficiency across all disciplines.
- By reducing risk and opportunity cost in the transitions between design, development, testing and manufacturing, VPI retains customer loyalty.
- With experience and expertise in developing medical devices, VPI brings your product idea to life.

About VPI

Engineering

VPI Technology Group is a multi-discipline technology firm, specializing in electronic design services, engineering, prototyping, certification and testing services, and electronics manufacturing. As a product development partner, we perform full, turnkey and single-stage electronic product development. Our in-house design engineering teams have expertise in a wide range of disciplines. They perform high-quality product realization using electrical, mechanical, software, firmware, and manufacturing engineering.

We specialize in new product development for cutting-edge technologies and innovative products, including sensor systems, measurement and monitoring systems, imaging and camera systems, embedded technology, RF/wireless design, and connected devices (wireless design and IoT).

Testing

VPI Laboratories performs safety testing, immunity testing, environment testing, and electronic product validation/verification testing for medical devices. Safety testing is performed in controlled lab environments by test engineers who use specialized equipment to confirm safe operation. Immunity testing is done in our anechoic chamber where automated pre-compliance emissions and radiated susceptibility tests are performed.

Regulatory

VPI supports medical device companies needing FDA 510(k) regulatory approval by designing to FDA required standards such as:

- IEC 60601 (medical electronics)
- IEC 62304 (medical device software)

VPI's quality system has been audited and approved by multiple medical device companies. VPI is certified to the ISO 9001:2015 quality standard.

Manufacturing

VPI Manufacturing provides assembly and manufacturing services for both products that have high quality, unique, and complex system requirements, as well as proven manufacturing services for low and medium volumes in the US and high production volume in Asia (principally the Philippines and China). We develop assembly drawings, build prototypes, design test fixtures, develop manufacturing plans, train to and implement best manufacturing practices, implement QA controls, and insure traceability for production.