



Devicix

Engineering the Future of Medicine

Electrical Engineering

Cutting-edge electrical engineering is a core component of Devicix's medical device development process. Without the electronic systems that support temperature sensors, motor controls, robotic movement, serial communications, power supply, and much more, most medical devices couldn't function.

Our team of electrical engineers — a group that includes professionals with extensive medical device experience and advanced degrees — works closely with our clients to determine project goals and translates these goals into devices having maximum quality, functionality and reliability.

Devicix's capabilities provide/address:

- Standards-based design, including those of the FDC, UL and EN 60601-1.
- Low-power circuits, including battery-powered devices and custom ASIC designs.
- Analog, digital, embedded microprocessor, digital signal processor, microcontroller, A-D converter, and other technological design competencies.
- Electronic design that supports serial communications, USB, and wireless technology i.e. Bluetooth, Ant, and ZigBee.
- Printed circuit board design using PADS software for schematic capture and PCB layout.
- Electronic sensor development; monitoring airflow, pressure, position, temperature, etc.
- ISO 14971:2007 certified patient risk mitigation (FTA/CEA/FMEA) and safety risk analysis.
- Testing and debugging services using state-of-the-art equipment i.e. oscilloscopes, logic analyzers and communications protocol analyzers.
- Motor control circuits.

