

OptimalDesign

a Deloitte business

Optimal Design, a Deloitte business, is a leading product engineering services company specializing in the innovation and development of smart connected products and Internet of Things (IoT) devices. Together, Optimal Design's multidisciplinary product engineering services talent and Deloitte's leading-edge capabilities help clients unlock innovation and achieve their digital transformation goals.

What we engineer

Wearable technology

- Smart watch/Wrist-worn devices
- Wellness wearables
- Pet wearables
- Augmented/virtual reality

Connected devices

- 5G-enabled devices
- Smart city
- Smartphones
- Asset tracking hardware

Lifestyle

- Smart home appliances
- Personal care/wellness
- Vehicle technology

Our services

Premier US-based design and engineering

- Industrial design
- Electrical
- RF and antenna design
- Mechanical
- Software
- Prototyping

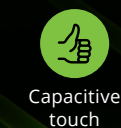
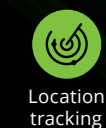
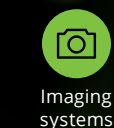
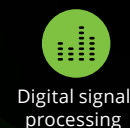
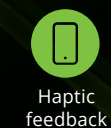
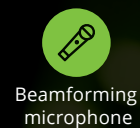
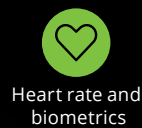
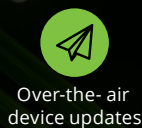
Product technology strategy

- Research and development
- Technology roadmap
- Device platforming
- Reverse engineering
- Intellectual property strategy

Optimized engineering cost structure

- Nearshore/offshore software engineering teams
- Sustenance software engineering
- Automated/manual software testing
- Product BOM cost optimization
- Supplier design transfers

Technology accelerators



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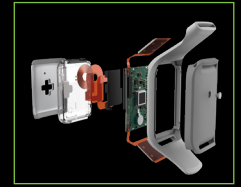
Engineering

Here are a few examples of our successful market-facing solutions:

Dementia Wearable

Designed, engineered, and developed by Optimal Design, CareBand is wearable technology that gives seniors the opportunity to live safely and in the least restrictive manner possible, while providing caregivers and families with insight into daily living behavior.

- System architecture
- UI/UX design
- Mechanical and electrical engineering
- Firmware development
- RF and antenna design
- Prototyping and verification



OBD II Tracker

Optimal Design architected, designed, and engineered the world's first LoRa enabled asset tracking system for vehicle applications. Including high-accuracy GPS tracking, DTC engine code scanner, Geofence capabilities, Bluetooth connectivity, and real-time vehicle status monitoring.

- Industrial design
- Mechanical and electrical engineering
- RF and antenna design
- Firmware development
- Prototyping and verification



Virtual Reality System

Optimal Design developed the first completely immersive and untethered virtual reality system. The system features state-of-the-art proprietary hardware and software designed entirely by Optimal Design to overlay a virtual environment onto real-world objects. Our team of technologists took our partner's idea from a whiteboard concept to an internationally deployed system.

- Industrial design
- Mechanical engineering
- Electrical engineering
- Firmware development
- Optics engineering (proprietary)
- Prototyping and verification



Additional Successful Projects

- BLE/WiFi connected smoker grill with custom cooking algorithm
- WiFi connected smoke and CO detector for leader in home safety
- Premium-tier hair dryer featuring +110,000 RPM brushless DC motor
- IoT connected makeup applicator for global personal care brand
- IoT connected and sensor-enabled pet access system for smart home

Learn more about Optimal Design innovations on our website optimaldesignco.com

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