Internet of Medical Things (IoMT) Case Studies

GlobalLogic Partnerships That Transform Patient Care Services

Partnerships That Create World-Class Digital Patient Experiences

The world's leading MedTech, Med Devices, CROs, and In Vitro Diagnostics organizations are continuously seeking new ways to improve the quality and increase the value of the care they bring to their patients.

They are tapping into the power of digital technologies to drive down costs, increase access to care delivery, and improve medical care.

Creating a user-friendly mobile app that communicates with a patient's medical therapy device can increase patient engagement, enabling much better patient performance, improving patient satisfaction, and helping the patient complete their therapy faster.

And embedding data management software and enabling connectivity for medical devices can make data more readily and rapidly available to be analyzed, creating opportunities for product innovation.
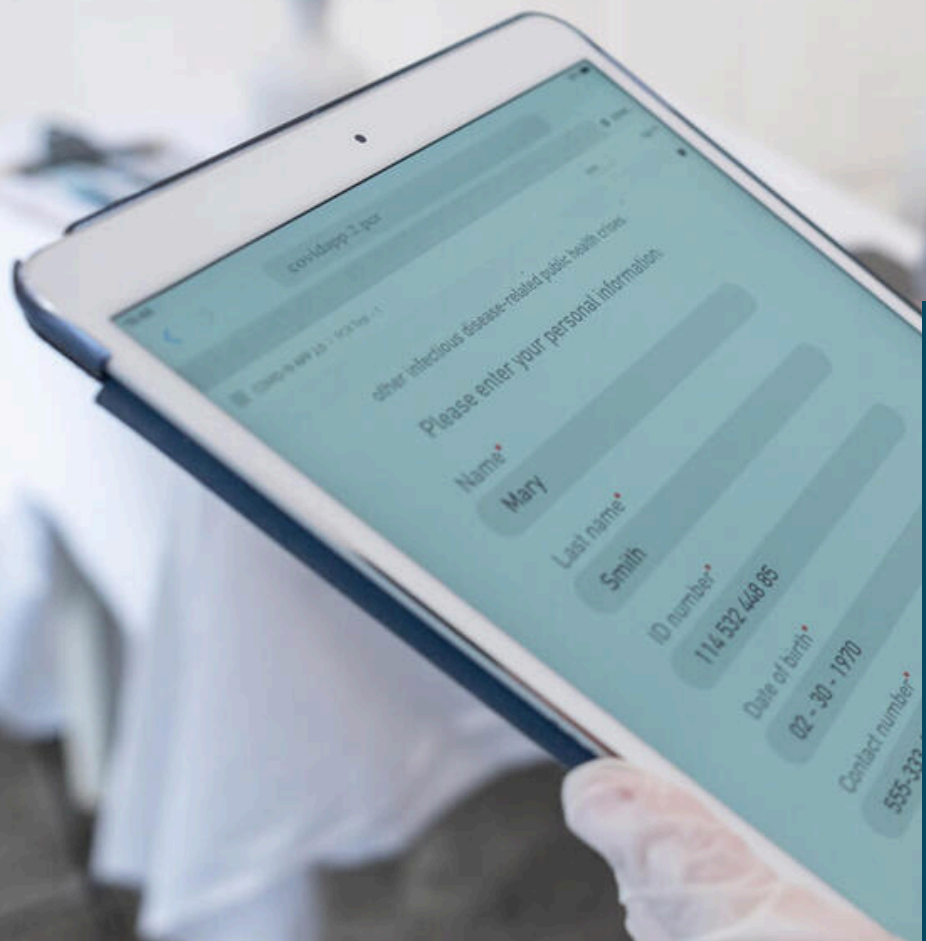
If your organization is embarking on any new digital engineering initiative or looking to adopt cutting-edge modern technologies in a strictly regulated environment, GlobalLogic can help.

GlobalLogic is a pioneer in developing solutions ranging from embedded medical device software to Software as Medical Devices (SaMD) and other patient therapy devices, as well as connected health systems and digital healthcare platforms.

Here are some success stories of organizations that partnered with GlobalLogic to create enhanced patient value that drives business outcomes.

Let's Work Together

Searching for a new engineering partner? Let's see how we can help. Click here to reach out to us.

Medical Device Asset Management System Development

This product currently supports over 350K medical devices and 55,000 customers including hospitals, EMS providers, police departments, and commercial locations such as airports, train stations, and hotels in over 80 different countries.

Client Scenario

A leading medical technology company had achieved remarkable success developing innovative products and services in Medical and Surgical, and Neurotechnology but faced a significant challenge.

Simply shipping a successful product is not enough, because such technologies require ongoing support. Changes in regulatory requirements, as well as the range of necessary field services, will drive software updates, which will be delivered via software upgrades.

Additionally, it is important to track which devices have received which upgrades, a process mostly performed manually using spreadsheets. The client needed a scalable means of providing this support.

Our Approach

GlobalLogic's expertise in embedded systems, secure communications, and cloud computing was instrumental in designing and developing a solution that allowed the client and their customers to remotely track the performance and operational readiness of their devices.

This enabled the client to provide support at the necessary scale in a cost-effective manner.

The solution monitored assets such as devices, batteries, electrodes, and other material resources owned by an organization. It also collected, transmitted, and managed asset data, sending notifications to involved personnel and providing a web interface for the data, all operating around the clock. The client gained an asset management system that enables them to better understand the quality and performance of their medical devices in the field.

Benefits

- Ensures the **operational readiness of devices in the field,** providing customers confidence that medical devices installed in clinical or commercial settings are]ready for use as needed.

- Allows the client to **manage more devices** and customers.

- Lowers costs by enabling the client to execute field software upgrades remotely — without the presence of field personnel or returning products for the upgrade — **at a fraction of the previous cost**.

GlobalLogic has maintained this capability, initially launched in 2008, as new devices and features have been added.

Patient–Nurse Communication Platform Development

Startup companies may have excellent concepts but lack the skills or experience to complete them.

In this case, combining client knowledge with the competency of a digital technology partner allowed patients to remain at home while receiving clinical follow-up.

Client Scenario

A European startup company and eHealth services provider was building out an innovative remote care system that would leverage the cloud and specially designed devices to enable telehealth activities.

It would allow patients who otherwise required clinic visits to manage aspects of their healthcare themselves instead.

However, the startup lacked expertise in a critical part of the system: communications. For the remote care system to succeed, it needed to enable easy communication between patients, nurses, and doctors.

Our Approach

The company turned to GlobalLogic to create an audio/video call infrastructure that would enable reliable communication between remote medical centers and care teams across low-bandwidth or intermittent networks, with support for security and data privacy to meet FDA cybersecurity guidance.

GlobalLogic applied its UI/UX design to ensure that the device would be easy to use across a broad spectrum of users.

GlobalLogic also leveraged its 13485- and 62304-compliant quality system in product development, enabling integration between iPads, a range of medical equipment provided in the Professional Medical Kit, and a web portal for medical professionals.

Benefits

The startup gained a **robust communication platform** that allowed them to build a community of approved doctors in one iHealth platform.

The **easy-to-use and intuitive platform** can scale across large populations and support security classifications for a wide range of clinical use cases, providing enhanced care for patients and enabling **access for patients to get fast and professional care** using phone calls, high-end medical devices, and modern technologies.

About GlobalLogic

With more than 20 years of experience in regulated software product development and engineering services, GlobalLogic helps some of the world's leading Medical Technology, Medical Devices, Pharma, and Life Sciences organizations create world-class digital patient experiences, accelerate new product development, and capture new revenue streams.

GlobalLogic®
A Hitachi Group Company

20+ years industry experience

2300+ industry-dedicated engineers

300+ new products

90+ clients

To learn more or speak with one of our experts, please reach out to info@globallogic.com.

We are on a two-decade-young journey and we're proud of our growth and the milestones we have achieved. A startup to a Hitachi group company, our product engineering story is unique. Thanks to our people who have been our companions and growth drivers in this amazing journey.

'We are GlobalLogic' is a spectacular showcase of what we do, what we represent, and our capabilities as a global leader in product engineering services.

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