

Software Development for an Eye Laser according to IEC 62304



A medium-sized Swiss MedTech company develops and markets innovative products for the diagnosis and treatment of eye diseases using a new type of eye laser. The products are sold worldwide and maintained by qualified service engineers. R&D projects are currently in the clinical validation stage for devices that will correct visual acuity. In their search for

experienced software developers in the medical technology sector, the customer turned to the experts at konplan.

External support for software development and updating the tech stack

In a project lasting several years, konplan supported the customer in developing the software used by doctors for touchscreen laser control. From the very beginning, konplan integrated their technical know-how and experience from other medtech projects into the development. Implementing new features, improving software efficiency, and making it more user-friendly were as equally important as continuous improvement of the development process and using the right tools to keep the build pipeline in sync with the most current technology.

Efficient development with medtech and software know-how

A system was developed with a UI that is easy to use and a favorable market position. The customer benefited from an objective external view concerning the development and architectural decisions which often provided new stimuli and subsequent response. Expert medtech knowledge combined with modern pipelines yielded an overall efficient development process. The customer could also flexibly adjust for peak workloads.

Result

- Revolutionary laser technology for worldwide use
- Competitive advantage
- Intuitive operating concept

Technologies

- .NET/C#
- C++
- Java
- Embedded Linux

Scope of Services

- User Interface (Touch)
- Architecture & concept
- DevOps/Toolchain



6 years



2 employees
(konplan)
ca. 15 employees
(Kunde)



Analysis, conception,
development