

Human Machine Interface (HMI)

Software development

for contrast agent injectors in medical technology

Customer's requirements

The development of new features for a line of contrast agent injectors as well as the revision and adaptation of the HMI.

A particular challenge was the integration of the revisions and adaptations into existing product lines. Only the changes absolutely necessary should be incorporated into the development.

Monitoring and support throughout the entire development cycle was of great importance to the customer.



comlet solution

Beginning with the low level software layers, drivers were implemented for I²C and GPIO. The next step was the implementation of time-controlled triggers (e.g. delayed start or end) at application level. Finally the user interface was adapted to the new specifications and revised in diverse areas to increase usability.

New diagnosis possibilities were implemented to support service technicians.

In addition to the primary development tasks, comlet supported the customer with the initial request analysis and documentation conforming to standards.

Technologies used

C, Visual Basic, Wilke Basic Tiger, Christ Elektronik Touch-it Basic (SH2) und Touch-it Comfort (SH3)

Project type

Software development

