

Device software for gas detectors for personal protection

„We rely on infoteam as a dependable partner with regard to the development of gas detectors. They support us with innovative solutions and expertise in a highly regulated environment. What we value about our collaboration is the proactive commitment to interdisciplinary issues, the relationship of trust and the open communication as equals.“

*Dr.-Ing. Sebastian Draack, Software Project Manager
Dräger Safety AG & Co. KGaA*

For our customer

Dräger

Firmware | C++ | Python | C | DIN EN 50271

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Under the claim "Technology for life," Dräger Safety develops products in the field of mobile and stationary gas detection technology that protect lives and meet demanding standards and quality requirements.

Initial situation

- New gas detector model X-am 2/5800 from Dräger for the detection of toxic gases, oxygen deficiency and flammable gases and vapors. It can also be used for 12-hour shifts thanks to low power consumption
- Firmware of two existing models as a template for reuse
- Four slots to be equipped with various gas sensors

Objective

- Development of the device software as a combination of existing firmware packages, i.e., porting/ optimization of the application and driver code
- Option to transfer measured values and incidents (errors and alarms) to a cloud application

Solution

- infoteam experts implement the project within the framework of Dräger's processes, i.e., agile software development in a dedicated Scrum team
- Adherence to the standards-compliant software development process from step one
- Review of the software requirements
- Integration of new modules, such as a Bluetooth interface for reading and recording device data via smartphone



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