

CONSUMER EMBEDDED SOFTWARE DEVELOPMENT: V-MODEL

Project Description

We are collaborating with a leading consumer product supplier in the medical (medical hygiene device) device industry, aiming to enhance user safety while delivering the best user experience. The project entails implementing various features on a Low Power MCU platform while ensuring the software's portability to similar hardware families. Our client requires a unified software solution capable of accommodating multiple device variants and facilitating Secure OTA updates to over 1 million devices in the market.

Solutions

With a deep understanding of embedded software development, Hanecs offers comprehensive consumer product development services, spanning from requirement gathering to implementation and testing. We have successfully integrated numerous features such as motion detection, wake-up detection, display drivers, memory management/optimization, and Secure OTA into the client's projects. Additionally, we support our client in automating the iterative software development process through various CI/CD methods, thereby accelerating the software development lifecycle.



Industry

Consumer electronics



Customer

Multinational corporation and leading player in the consumer electronics industry



Keywords

Embedded Software Development, Consumer electronics product, Medical

Tools / Framework Used

- ✓ Segger Debugger/Flasher
- ✓ Eclipse/VS-Code
- ✓ GCC Compiler
- ✓ GitHub
- ✓ GitHub Actions
- ✓ Silicon Labs BLE Configurator
- ✓ Jira
- ✓ Confluence
- ✓ QA-C
- ✓ MISRA