EXPANDING MEDICAL DEVICES FIRMWARE?
DEVELOP IN CONFIDENSE AND STYLE WITH FSI

UNDERSTANDING THE DOMAIN

Developing software is like a journey : taking a knowledgeable partner with you is crucial to reaching your destination . You need a friend who has been there and done that – and FSI has proven expertise in embedded software development for medical devices.

FOUNDATION: ARCHITECTURE AND LANGUAGES

ARM Cortex M series ARM64/aarch64	Intel x86-64	AVR	PIC16/18

Python · C · C++· GCC · Keil · IAR

EMBEDDED DEVELOPMENT

```
        AREA    ARMex, CODE, READONLY
                            ; Name this block of code ARMex
        ENTRY               ; Mark first instruction to execute
start
        MOV     r0, #10     ; Set up parameters
        MOV     r1, #3
        ADD     r0, r0, r1  ; r0 = r0 + r1
stop
        MOV     r0, #0x18   ; angel_SWIreason_Rep
        LDR     r1, =0x20026 ; ADP_Stopped_Applica
        SVC     #0x123456   ; ARM semihosting (fo
        END                 ; Mark end of file
```

OS	PROTOCOLS	IoT	Architectures
Linux, Android, FreeRTOS	USART/UART, I2C, SPI, Ethernet	COAP, MQTT, DTLS	-Real Time · Motor Control

ENSURING DELIVERY THROUGH DUE DILIGENCE IN PROCESSES

The proper development processes ensure that the delivery is timely and meets the highest standards With medical devices, they include among others CFR 21, ISO 9001, HIPAA. We also use proper testing techniques and quality certification per industry – at FSI we ensure quality and compliance.

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