Arm Cortex-R52 Software Development

Summary:
This training course covers the issues involved in developing software for platforms powered by the Arm Cortex-R52 processor.

Prerequisites:
- A basic understanding of microprocessor systems
- Familiarity with assembler or C programming
- Experience of embedded system development is helpful but not essential
- A basic awareness of Arm is an advantage but not required

Audience:
This course is aimed at software developers and system architects developing for systems powered by Cortex-R52 processor. It is relevant for real-time operating system development, device drivers, low-level coding and for application software.

Delivery Method:
- Private face to face classroom
- Series of short live virtual training sessions

Length:
3 days

Modules:
- Introduction to Armv8-R
- Software Engineers’ Guide to Cortex-R52
- Assembler Programming for Arm Processors
- Exception Handling
- Programming the GIC
- Arm Caches and TCMs
- Using the MPU
- Synchronization
- Barriers
- Virtualization in Armv8-R
- Writing C for Arm
- NEON Overview
- Cortex-R52 Booting
- Debug