

Training

UEFI Firmware Development



Agenda 1. Day

9:00 am

- Introduction into UEFI
- UEFI and Legacy BIOS
- UEFI Specifications

Coffee Break

- UEFI Phases
- UEFI Shell
- Shell Script

Lunch

- GUID Partition Table
- Services, Protocols and Handles

Coffee Break

- UEFI Variables and Data Storage
- UEFI GUID Interface
- Device Path Protocol

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UEFI Firmware Development



Agenda 2. Day

9:00 am

- Firmware Address Space
- Memory Management (SMRAM and Memory Map)

Coffee Break

- EDK-2 Development Environment
- Development with Visual Studio

Lunch

- OVMF with QEMU and TianoCore
- UEFI Debugging

Coffee Break

- UEFI Application Project
- DSC and INF Files

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UEFI Firmware Development



Agenda 3. Day

9:00 am

- DXE Driver Model
- Resource Management
- PCI Driver Project

Coffee Break

- Post-DXE Management
- Runtime Driver Project

Lunch

- SMRAM
- SMM Management
- SMM Driver

Coffee Break

- UEFI Secure Boot and Key Management
- UEFI Driver Signing