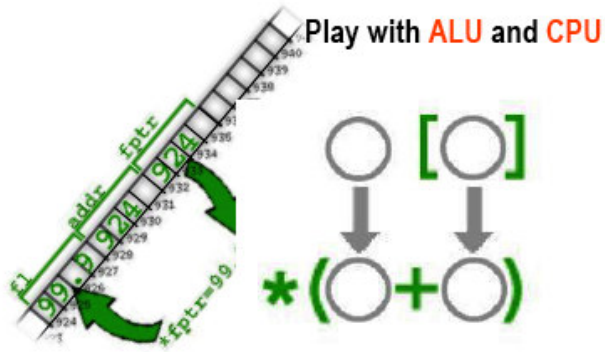


**Duration:**

**Content:** Hands-On Training on **Microcontroller**



Your Binary – **Embedded World**



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### Microcontroller in Embedded System:

- (1) Introduction of the Microcontroller.
- (2) Awareness of the CPU core technology.
- (3) Microcontroller–Flash Memory Programming.
- (4) General Purpose Input/Output – Operation.
- (5) Introduction to Microcontroller Peripherals.

### Development Tools in Embedded System:

- (1) Introduction of the Cross-Compiler.
- (2) How to use IDE for Firmware development?
- (3) Project Development using Standard – IDE.
- (4) Developing of the Embedded Project in IDE.
- (5) Integration of the Firmware and Hardware
- (6) Use of the development tools.
- (7) How to utilize the Development tools to shorten project development time.

### Hardware in Embedded System:

- (1) Introduction to PCB design tools.
- (2) Electronics Circuit design (Schematic).
- (3) Generation of the Net list from Schematic.
- (4) Schematic and PCB Library Preparation.
- (5) Component naming convention and Annotation.
- (6) Creation of the PCB and Component Placement.
- (7) PCB routing and EMI/EMC.
- (8) Generation of the CAM and Gerber file for Fabrication.



**EMBEDDED**  
**CERTIFIED**