

SIEMENS

CERTIFICATE OF ACHIEVEMENT



Proudly Presented To

Mostafa Ashraf Ebrahim Ali Elfeel

For Completing the Embedded Systems Essentials Training Program

Mastering microcontroller basics, including CPU architecture (Cortex-Mx, MPU, FPU, MMU), memory types, and interrupts. Understand startup code, linker scripts, and the compilation process. Learn RTOS fundamentals and communication protocols (UART, SPI, I2C, CAN, LIN). Explore the HSM core and AUTOSAR, focusing on its workflow, application layer, and COM stack. Familiarize with Agile testing and AUTOSAR OSEK OS.

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