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## Embedded

### Controller Area Network

Controller Area Network (CAN) is a low-level network that provides connections between simple industrial devices (such as sensors, actuators, and valves) and higher-level devices (such as PLC controllers and computers).

### Embedded

A term used to describe an object, software, or hardware that is independent and doesn't need an external program or device to run it.

### Embedded C

A set of language extensions for the [C programming language](#), used to program embedded microcontroller systems, allows to write programs, suitable for the microprocessor environment.

### Embedded Database

A database system designed for management solutions of the embedded space, performs reasonably in tight environments. Doesn't need a server, built into an app. Can be used for email archive searches, stored game data, for industry-specific tools, etc.

### Embedded Java

A software development platform that includes Java technologies, used for dedicated-purpose devices with [embedded systems](#), such as printers, mobile phones, GPS receivers, medical imaging equipment etc.

### Embedded Linux

A complete [Linux](#) distribution targeted at embedded systems (smartphones, tablets, set-top boxes, personal media players, etc). One major example of it is [Android](#), developed by Google.

### Embedded operating system

A specialized [OS](#) for use in the computers built into larger systems. Hardware that uses it is designed to be lightweight and compact, to do efficiently specific tasks. Examples include computers in cars, traffic lights, digital TV, ATMs, airplane controls, sale terminals, GPS, etc.

### Embedded software

A computer software that is embedded in hardware or non-PC devices. Used to control the functions of various hardware devices and systems. For example GPS devices, factory robots, some calculators and even modern smartwatches.

### Embedded SQL

A method of combining [SQL](#) with host languages using an embedded SQL preprocessor. Allows to mix SQL statements into an application program written in programming language and combines computing power of a language with SQL's specialized data management and manipulation capabilities.

### Embedded system

A dedicated computer system designed for specific functions within a larger system. That is a combination of computer hardware and software, fixed in capability or programmable. It can be microprocessor or microcontroller based, can control many devices in common use today.

### KMDF

Kernel-Mode Driver Framework is a driver framework used for helping driver developers create and maintain kernel mode device drivers, less complicated than other Windows Driver Model, provides power management and plug and play.

### Mongoose

A cross-platform embedded networking library and web server. It is multi-protocol and includes: [TCP](#), [HTTP](#) client and server, [WebSocket](#) client and server, [MQTT](#) client, etc.

### OLE

Object Linking and Embedding is a technology of binding and implementation of objects in other documents and objects. The main advantage of using OLE is that it allows you to create a main file, a file of functions that the program accesses.

### OpenGL ES

Open Graphics Library for Embedded System is a simplified version of [OpenGL](#). It is a cross-platform [API](#) for full-function 2D and 3D graphics (including consoles, phones, appliances, etc.). Creates a flexible low-level interface between software and graphics acceleration.

### WDF

Windows Driver Frameworks is a collection of libraries used to develop [Windows](#) device drivers. It is comprised of [Kernel-Mode](#) DF and User-Mode DF, aims to help reduce duplication and overhead, allows developers to use the same concepts across different drivers.

### WinCE

Windows Embedded Compact is an operating system part of [Windows Embedded](#) family which. It uses a different hybrid kernel and allows to modify [UI](#). It is optimized for devices with minimal memory.

### Windows Embedded

A collection of operating systems from Microsoft designed to power [embedded systems](#). It helps original equipment manufacturers in development of [Windows](#) devices, such as smartphones, automobile infotainment systems.