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Software Engineering

Embedded

C | C++ | Basic
Assembly (PIC | M0 | 8051)

Hardware Description
Verilog

Computer

Visual basic | visual C# | C++ | Java
Ruby | Perl | Python

Web

HTML | CSS | PHP | JavaScript
jQuery | Java

Database

MySQL | Microsoft SQL

Electronic Engineering

Embedded systems
Digital electronics
Power electronics
Signal processing

Control theory
Pneumatic systems
Robotics design
Image processing

Hardware architectures

ARM (M0 | M3)
Microchip (8/16/32)
8052

ATMEL (8/32)
Altera (Cyclone IV)

Operation System

FreeRTOS | Window | Linux | Android

Communication Protocols

CAN
I2C
SPI
1Wire

RS232
RS422
USB

Software packages

PCB Design
Proteus Professional | Altium Designer

IDE
Keil UVision | MPLAB X | LPCXpresso,
Quartus | Visual studio | Netbeans
Eclipse

3D CAD Design
Solidworks | Autodesk Inventor

Standards

EMC EN 61000 (Electromagnetic compatibility)
ATEX EN 60079-0 (Equipment. General requirement)
ATEX EN 60079-11 (Equipment protection by intrinsic safety i)