

# Embedded Applications Engineer

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## About the Job

The Embedded Applications Engineer at DE Design Works enjoys working in a casual collaborative team environment, with other Engineers and customers on a variety of product development projects which typically include custom hardware and software, wired and wireless communications technologies, control systems, and user interfaces. The team member is comfortable working independently and collaboratively on multiple projects, continuous learning, balancing priorities, working with hardware Engineers over electronic schematics and component datasheets, and using standard electronics lab equipment for software/hardware trouble-shooting. This is a great opportunity to work with the latest technology while helping bring products to life.

## About the Company

DE Design Works is an engineering services firm specializing in napkin sketch to production product development with core competency in embedded firmware, application software development, printed circuit board (PCBA) hardware design, quick turn prototyping, pre-certification testing, and management consulting for scaling the manufacturing of electronic assemblies to volume production. DE Design Works (formerly Dave Engineering LLC) has been in business since 2002. We strive to provide our customers with innovative, high-quality solutions through the deployment of cutting-edge technology and services that exceed the customer's expectations. Our customers range from small to large corporations that represent industrial, commercial, medical, and military market segments. Through vertical integration of our skilled engineers, DE delivers complete designs with expertise in hardware, software, systems, and mechanical disciplines.

## Desired Skills & Experience

### Responsibilities:

Design and develop embedded software and software platforms. Design and implement embedded applications, incorporating as appropriate custom software and open-source platform software. Work with management, team, and customers to develop and document requirements. Communicate regularly with customer. Some occasional domestic travel to customer locations may be required.

### Qualifications:

Requires a minimum of 4-years of experience working hands-on in Embedded systems with microcontrollers, embedded PC or other low-level software/hardware environment. A Bachelor's Degree in Electrical, Computer Engineering or Computer Science is required. Strong communication skills are necessary. This position reports to the Director of Software Engineering.

### Technologies:

*Required:* Solid Embedded programming skills in C, C++, embedded MCU/MPU and/or embedded PC platforms. Embedded Linux preferred. Working knowledge of communication technologies (UART, USB, I<sup>2</sup>C, SPI.) Ability to read and interpret schematics and device datasheets. Adept use of software version control systems in daily work.

*Useful skills:* Embedded GNU/Linux, Buildroot, Yocto, Linux device drivers, C#, security technologies, IoT platforms, AWS/Azure, VB.NET, Python, RTOS, PIC16/24/32, DSP and signal processing, CPLD/FPGA programmable logic and digital design, motor and motion control, graphics and user interface development, Bluetooth LE, Wi-Fi, TCP/IP, CAN bus, TPC/IP Networking, App development (Android Java, iOS)

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