

嵌入式软件工程师 Embedded Software System Engineer

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Company: Siemens Energy

Location: Shenzhen

Category: computer-and-mathematical

嵌入式软件工程师 Embedded Software System Engineer

About the Role

LocationChina Guangdong Sheng Shenzhen Company Siemens Energy (Shenzhen) Co. Ltd.

Organization EVP Global Functions Business Unit Innovation Full / Part time Full-time

Experience Level Mid-level Professional

Embedded Software System Engineer

We are looking for an **Embedded Software System Engineer** to drive innovation in the field of power system design and simulation for Energy Storage, Renewable Power Generation, Energy Transmission and Microgrid in Siemens Energy Shenzhen Innovation Center.

Location: Shenzhen

Responsibilities:

Lead the architecture design and product planning of embedded system platform;

Responsible for detailed embedded system design and application development;

Participate in the completion of the project energy management system, energy storage system control scheme design;

Led the quality control in the software development process, including inspection, review, self-testing, etc.

Job requirements:

Master degree or above, major in electrical engineering, automation, control engineering,

instrumentation and measurement or related;

5 years or more working experience in power electronic product development such as UPS, converter, or inverter.

Proficient in C/C++ language and embedded software development process;

Familiar with at least one mainstream ARM/MCU or MPU basic architecture, familiar with at least one freeRTOS, RT-Thread or linux operating system, familiar with common data structures;

Familiar with CAN, Modbus, RS485, RS232, SPI, TCP/IP protocol bus and have experience in use; Familiar with the principle of acquisition control circuit;

Proficient in energy storage system, energy management system EMS, battery management system BMS control strategy, understanding of micro-grid control algorithms such as sag control, virtual synchronous machine, virtual synchronous oscillation control, etc.

Understand board software design, software engineering and other related knowledge;

Have good communication and coordination skills, enthusiasm for work, serious, responsible, team spirit;

Fluent in English and Mandarin for business oral or written communication.

嵌入式软件工程师

位

- 1、主 完成嵌入式系 平台的架 和 品
- 2、 完成嵌入式系 及 用程序
- 3、 参与完成 目的能量管理系 、 能系 的控制方案
- 4、 主 完成 件 程中的 量控制包括走 、 、 自 等。

任 要求

士及以上学 气工程、 自 化、 控制工程、 器与 量及相

5年以上 力 子 品 如UPS、 器、 逆 器等

精通C/C++ 言和嵌入式 件 流程

熟悉至少一 主流ARM/MCU或MPU基本架 熟悉至少一 freeRTOS、 RT-Thread或linux等操作系统 熟悉常用数据

熟悉CAN、 Modbus、 RS485、 RS232、 SPI、 TCP/IP 等 并有使用 熟悉采集控制 路工作原理

精通 能系、 能量管理系 EMS、 池管理系 BMS控制策略 了解微网控制算法如下垂控制 虚 同 机 虚 同 振 控制等

了解 板 件 、 件工程等相 知

具 良好的 通 能力 工作 情 真、 有 作精神

可 使用流利的英 和普 通 行 口 或 面 通。

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