



**Do you want to be part of a Local, Growing, Dynamic and Innovative organization that drives your talents and excellence to levels never envisioned?**

**<<< We are looking for the best talent to shape the power electronics technology of the future >>>**

**C:\> Come build your career in AmePower**

## **C:\> About Us**

AmePower is a certified Florida based engineering company with over 20 years of experience specialized in delivering customized solutions to improve the efficiency and reliability of old, defective, or obsolete High-Power Electronics systems found in rail vehicles, wind turbines, mining equipment, among other systems offering service revenue.

Our main area of expertise includes the repair, the overhaul, but most unique and important, the complete modernization and/or technology conversion of any High-Power AC/DC Converter/Inverter equipment without major system modifications. This is what we have called, **#AmePowerize™**

To learn more, please visit [www.amepower.com/amepowerize](http://www.amepower.com/amepowerize).

## **C:\> Our Impact**

AmePower's unique re-engineering process, slim and effective company structure, years of experience combined with our passion to deploy innovation and state-of-the-art technology to all these critical equipment, make us a distinguished power electronics integrator and OEM, offering smart, flexible, and cost-effective alternatives reinventing the way that Transit Agencies, Rail Vehicles Manufacturers and wind turbine operators can now react against obsolescence or unreliable equipment, avoiding the need of an extensive, expensive and complex total system replacement. We stop the endless repair cycle while maximizing the equipment's service revenue.

## **C:\> Role's Overview**

A Senior Embedded Software/System Engineer develops, drives, and allows a cost-efficient and timely realization of the software required with the appropriate quality and results even in the face of challenging and evolving business cases. In addition to that, leads, guides, and motivates the entire team to generate the appropriate documentation, testing procedures, maintenance procedures, and the required software updates and implementation,

You will make sure that the required software satisfies different industry standards, ensure compliance with AmePower's High Power Inverter/Converter project-specific requirements or case by case, by following our Chief Technical Officer's guidelines to reduce or minimize software architecture drift from the very beginning. You will need to have a good overall understanding of our business model and ensure that the design decisions are fully aligned with the overall business goals.

## C:\> Job details

**Title:** Senior Embedded Software/System Engineer

We are looking for a Senior Embedded Software/System Engineer to design firmware and software for our products using state-of-art SoC technology integrated with advanced control logic for Power Electronics Control Applications.

The goal is to create scalable and optimized software systems considering these main aspects:

- Create a foundation for firmware and software development for all new products
- Design Integrating FPGA and Microcontroller (SoC) firmware with communications, configuration, and calibration
- Capable of using Industry Standards and Best Practices for a Resilient and Secure Embedded Software Design, Modularity, Scalability, Stability and Efficiency
- Familiarity with Industrial Field Bus Communications like Modbus, CAN, LON, Ethernet, etc.

## C:\> Requirements

- Proven working experience in embedded software engineering
- BS degree in Computer Science or Engineering
- Strong Knowledge of SoC-based developments, preferably using Flash Based SoC like SmartFusion2
- Experience with Team Oriented Modular and Scalable Design
- Experience in hands-on development and troubleshooting on embedded targets
- Solid programming experience in C or C++
- Proven experience in embedded systems design with preemptive, multitasking real-time operating systems, preferably uLinux
- Adequate knowledge of reading schematics and datasheets for components
- Strong documentation and writing skills
- Self-learning, organized, proactive, and good management skills.

## C:\> Responsibilities

- Design and implement firmware/software of embedded devices and systems from concept to production
- Design, develop, code, test and debug system software
- Review code and design
- Analyze and enhance efficiency, stability, and scalability of system resources
- Integrate and validate new product designs
- Support software QA and optimize I/O performance
- Provide post-production support
- Interface with hardware design and development
- Coordinate Work with third-party developers and internal engineering team

All qualified applicants will receive consideration for employment without regard to their race, color, creed, religion, national origin, citizenship status, ancestry, sex, age, physical or mental disability unrelated to ability, marital status, family responsibilities, pregnancy, genetic information, sexual orientation, gender expression, gender identity, transgender, sex stereotyping, order of protection status, protected veteran or military status, or an unfavorable discharge from military service, and other categories protected by federal, state or local law. EEO is the Law Applicants and employees are protected under Federal law from discrimination.

## C:\> Benefits

Great company culture and environment. Great Compensation Package. Medical, Dental, Vision - 401 (K) Generous Paid time off (PTO) - Vacation, sick, and paid holidays - Life Insurance coverage among other complimentary packages available.