

Systems Engineer

An Oakland, CA-based professional consulting firm seeks a systems engineer to provide a variety of computer hardware and software engineering services to support the firm's development team on a part-time basis, which will lead to a full-time position. The position requires a self-starter, with lots of energy, and a background in transit and infrastructure technology. Embedded system design experience is a plus. The successful candidate will be an individual contributor, willing to learn new skills, and able to prioritize several concurrent assignments.

The successful candidate will perform the following tasks:

- Develop complete software applications
- Create embedded circuit designs and printed circuit board layouts
- Consult with clients to define technical solutions that meet their business requirements
- Qualify electronic components for system design and deployment
- Develop housing/enclosures for embedded systems
- Define clients' system requirements through analysis, and design and develop computer systems of various levels of complexity
- Develop specifications for information technology and automatic fare collection projects
- Develop test plan specifications, test and debug systems
- Develop turn-key systems in coordination with the client's staff that can be understood and maintained by the client
- Document reviews for automatic fare collection deliverables
- Make technical decisions of large complex development efforts on client's behalf
- Provide technical direction and assistance to clients regarding their software and system requirements
- Understand International Standards Organization (ISO) 14443 and related standards as applicable to smart card systems and architecture
- Attain Underwriter Laboratory, Federal Communication Commission, ISO, and bank certifications for products

The ideal candidate will be motivated and have the following essential skills:

- Advanced electronic and mechanical skills
- Mathematical aptitude
- Network design
- Software development
- Written and oral communication

The ideal candidate will have experience with the following software development tools and environments:

Operating Systems

- Android
- Apple OS X & iOS
- Microsoft operating systems
- Linux
- 32-bit native microcontroller programming

Programming Languages

- Assembly
- BASCI
- C/C++
- FORTRAN
- Java
- Lisp
- Native ARM Controller
- PHP
- Pascal
- Prolog
- PL/SQL

Programming Environments

- Microsoft Visual Studio
- Nokia Qt
- Eclipse
- Android SDK
- Apple iOS SDK

Board Development Software

- Win QCAD
- Protel

Minimum qualifications:

- Five to seven years of verifiable experience (full-time equivalent) in engineering activities related to the essential skills requirement above
- A college degree in computer science or a closely related field; however, we may consider additional professional experience in lieu of a college degree

Desired skills:

- Experience in public transportation
- Experience providing face-to-face client support
- Knowledge of smart card and automatic fare collection technology
- Technical knowledge of the transportation industry
- Technical writing and the use of Microsoft Windows-based environments

This is an exciting opportunity for a fast learner with the essential skills and a strong work ethic. Compensation is competitive.

You must use the link below to apply and submit a cover letter describing/detailing why you are the ideal candidate for this position, and your resume, and your salary history/requirements. Submit your documents in Microsoft Word format ONLY. We will not consider pdf documents or incomplete submittals.

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