

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. This position requires a motivated self-starter who has lots of energy and a background in transit and infrastructure technology. Embedded-system design experience is a plus. The successful candidate will be comfortable working independently or as part of a team, willing to learn new skills, and able to prioritize several concurrent assignments. The pay is competitive.

The successful candidate will perform the following tasks:

- Develop complete software applications
- 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 on software and system requirements
- Create embedded circuit designs and printed circuit board layouts
- 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

Essential skills, qualifications and characteristics:

- Five to seven years of verifiable experience (full-time equivalent) in related engineering activities
- A college degree in computer science or a closely related field; however, we may consider additional professional experience in lieu of a college degree
- Advanced electronic and mechanical abilities
- Mathematical aptitude
- Software development and network design expertise
- Written and oral communications skills
- Experience in, and technical knowledge of, the public transportation industry
- Experience providing face-to-face client support
- Knowledge of smart card and automatic fare collection technology
- Technical writing and working in Microsoft Windows-based environments

Experience with the following software development tools and environments is preferred:

Operating Systems	Programming Languages		Programming Environments	Board Development Software
<ul style="list-style-type: none"> ✓ Android ✓ Apple OS X & iOS ✓ Microsoft operating systems ✓ Linux ✓ 32-bit native microcontroller programming 	<ul style="list-style-type: none"> ✓ Assembly ✓ BASCI ✓ C/C++ ✓ FORTRAN ✓ Java/Kotlin ✓ Lisp ✓ Native ARM Controller 	<ul style="list-style-type: none"> ✓ PHP ✓ Pascal ✓ Elixir ✓ Prolog ✓ PL/SQL ✓ Kotlin ✓ Swift ✓ Dart 	<ul style="list-style-type: none"> ✓ Microsoft Visual Studio ✓ Nokia Qt ✓ Android SDK (Android Studio) ✓ Apple iOS SDK (XCode) 	<ul style="list-style-type: none"> ✓ Win QCAD ✓ PADS

You must use the **APPLY** link below to apply for this position. The link will direct you to the **Careers Portal** on our website. Please submit your cover letter describing why you are the ideal candidate for the position and your resume. Please submit your documents in Microsoft Word format.

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