Junior Systems Engineer

An Oakland, CA-based professional consulting firm seeks a junior systems engineer to develop a variety of computer hardware and software applications to support the firm's development team. Based in Los Angeles, CA, this position initially will be on a part-time basis with the potential to become a full-time position. The junior systems engineer will need to be an energetic self-starter with a good attitude and a solid work ethic. A background in highway or rail and transit systems technology or other relevant experience is a plus. The successful candidate will be able to learn new skills and prioritize several concurrent assignments. The pay is competitive.

The junior systems engineer will perform the following tasks:

- Data gathering and assembly
- Develop complete software applications
- Assist in field hardware testing
- Assist in consulting with clients to define technical solutions that meet their business requirements
- Qualify electronic components for system design and deployment
- Assist in testing housings/enclosures for systems
- Define clients' system requirements through analysis, and design and develop computer systems of various levels of complexity
- Develop specifications for information technology
- Develop test plan specifications, test and debug systems
- Develop turnkey systems in coordination with the client's staff that can be understood and maintained by the client
- Assist in the making of technical decisions related to large complex development efforts on client's behalf
- Assist with database design: SQL, NoSQL (Big Data)
- Assist with the development of UI/UX and web applications
- Assist with the development of software interfaces using multiple protocols (e.g. VEI, XML, JSON, REST, PEAR)

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

- One to two years' experience in transportation systems
- Mathematical aptitude
- Network design
- Software development
- Excellent written and oral communication
- Advanced cryptography
- Awareness of printed circuit boards
- Firmware development
- Experience providing face-to-face client support
- Technical writing and the use of Microsoft Windows-based environments

<u>The ideal candidate will have familiarity and experience with the following:</u>

Operating Systems	Programming Languages	Programming Environments	Board Development Software
Android	Assembly	Microsoft Visual Studio	Win QCAD
Apple OSX & iOS	Basic/Visual Basic	Digia Qt	Protel
Microsoft Operating Systems	C/C++/Visual C++	Eclipse	PADS
Linux	FORTRAN	Android Studio/Android SDK	KiCAD
32 Bit Native Microcontroller Programming (Bare Metal)	Java	XCode/Apple iOS SDK	
	Lisp		
	ARM Assembler		
	PHP		
	Pascal		
	Prolog		
	PL/SQL		
	Objective C/Swift		
	Python		

Minimum qualifications:

• BS in Computer Science or a related Engineering discipline

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.

<u>**APPLY**</u>