

Linux Architect - Permanent Position - Colorado Springs, CO

US Citizens or Permanent Residents Only

Summary / Purpose

Lead, architect, develop & validate Linux based system diagnostics.

Essential Duties and Responsibilities

- Oversee and Lead architecture development for Linux based system Diags
- Provide project and technical leadership to the component development/test teams (OS, Driver, Middleware, apps, QA) in technical/architecture matters.
- Participate in definition, design, and review of software architecture, design, application frameworks, and interfaces.
- Establish method for analyzing diag coverage of each sub-system
- Add kernel /driver support for new and state-of-the-art architecture features
- Assist various teams in integrating open source and new ported features
- Integrate and test software to confirm compliance with specifications.
- Support field trials by installing, testing, and troubleshooting software at customer sites.
- Provide mentoring to team in supporting and driving appropriate design processes, i.e SCRUM development model, and ensure team compliance
- Lead and participate in all elements of design engineering including design reviews and design verification.
- Support management in identifying internal and external resources to support product development.

Job Requirements

- Excellent interpersonal communication and organizational skills.
- Diag development experience in Linux environment a plus
- Demonstrated knowledge of x86 architecture and operating system design and implementation.
- Adept at both assembly language and C.
- Experience using software management systems (e.g. git p4 svn); in particular integration (merging) of independent contributions to a common project.
- Familiarity with the build process of Linux distributions & Linux kernel internals.
- Experience working with scripting languages (e.g. perl ruby bash).
- Ability to lead complex technical discussions and initiatives.
- Experience with Linux kernel architecture porting real-time embedded systems / RTOS
- Experience in designing/architecting embedded software using the Linux OS/kernel
- Working Knowledge of Open Source development and best practices and open source community resources.
- Experience interacting with the Open Source community is a plus
- Knowledge in some of the following: storage systems process management virtual memory I/O subsystem performance analysis file systems resource management boot sequence driver load mechanisms Linux configuration internals
- Experience with code management and bug tracking tools
- Linux/UNIX kernel development and at least 5 years writing device drivers
- BSCS degree or equivalent and minimum 8 years directly related experience