

Systems Automation Engineer

Protectli - Vista, California

Compensation: commensurate with experience

Employment type: full-time, hybrid

Immediate Position Available - March 2024

Protectli is a manufacturer of small form-factor computers and network appliances. Protectli delivers custom-tailored hardware to its consumers, and part of our process requires automated testing and provisioning of hardware and software to multiple specifications. We are seeking a full-time Systems Automation Engineer who can take ownership of necessary tasks and develop processes to fulfill automation needs. We are a small operation in a relaxed environment, and we value customer satisfaction above all else. We do whatever we can to make sure our customers are always happy with our products and services, and expect the same from you.

Key Responsibilities and Typical Duties

The position of Systems Automation Engineer assumes you have the capability to engineer scripts in order to test, validate, and certify that hardware and software leaving the Protectli warehouse are fully functional and meet specifications. All Protectli warehouses globally will utilize the Systems Automation Engineer's test procedures in order to deliver a quality product.

- Develop applications and scripts that run directly on Protectli hardware via PXE to self-validate functionality.
- Support manufacturing staff with new or emerging automation needs, such as printing software-generated labels.
- Update and maintain test architectures of multiple office locations. Protectli produces over a dozen unique computers with two different BIOSes (AMI and coreboot). Hardware test cases evolve as newer technologies emerge, and you must generate the appropriate test script coverage and validate its efficacy against all units.
- Interact with other Protectli teams to identify tasks that can be converted from human labor to automation. Examples include writing pre-installation scripts to provision OSes onto bare metal hardware with zero-touch configuration principles in mind.
- Diagnose and resolve L3 support requests that may be experienced in the field but unreproducible locally.
- Manually test and then script the future testing of new firmware and BIOS images provided by vendors.
- Network performance testing using iMIX or RFC 2544 traffic concepts.

Job Requirements

- Bachelor's degree or equivalent in an applicable field, or comparable work experience
- Able to work in-office at our Vista, CA headquarters
- Expert knowledge of computer hardware is required. (You can explain the relationship between common hardware components of a computer, such as CPU, memory, storage, networking devices, etc.)
- Advanced knowledge of either Linux- or BSD-based operating systems. (You understand command line tools and understand how to build a kernel from existing source code)
- Intermediate knowledge of networking principles. (You understand concepts such as VPNs, VLANs, and MEF principles)
- The ability to self-start and prioritize tasks congruent with company needs.
- Great attention to detail and organizational skills when dealing with many similar but distinct hardware devices.

Preferred Skills

- Knowledge of firewall operating systems is a plus. (OPNsense, pfSense, or others)
- Knowledge of booting systems without persistent storage is a plus. (Booting live operating systems delivered via PXE)
- Knowledge of firmware development is a strong plus (You feel comfortable with C debugging and patching in projects like the Linux kernel, coreboot, or other targets)
- Experience with software automation tools and frameworks is a plus.
- Electrical engineering knowledge is a plus.
- Experience with any of the following tools and technologies are plusses: Git for version control, Gitlab for repo management and ticketing, Asana for project management, Acumatica for CRM, virtualization, POSIX-compliant shell scripting (or bash/zsh/etc.), Perl, Python, PHP, MySQL, Docker, iPXE.

Benefits & Compensation

- Employer-sponsored plans including health (with optional HSA), vision, dental, and life insurance
- Company-managed 401K with 3% company match
- 3 weeks of paid time off annually, increasing over time
- 10 paid holidays annually
- Competitive compensation commensurate with experience and skillset

Eligibility

- Must be a US citizen or have a permit to work in the US

Applying

Please submit your resume to jobs@protectli.com referencing “Systems Automation Engineer” in the subject line. Feel free to also include links to any projects, certifications, or other pertinent information that may be relevant to your application.