



POSITION TITLE: Linux Software Engineer **DATE:** October 5, 2021
EMPLOYMENT STATUS: Full-Time, Non-Exempt Employee
REPORTS TO: Software Engineering Manager
LOCATION: Monterey, CA--Management may consider remote (partial or full) for a fully trained CyberData employee (<https://www.cyberdata.net>)

SUMMARY: We develop and manufacture innovative SIP Endpoints for the SMB, healthcare, education and public/private sector as well as POS (Point of Sale) connectivity solutions. We are looking for a Linux Software Engineer to join our talented group of embedded system developers. Your goals will be to quickly learn CyberData custom hardware products, code, methods, and practices while being a contributing member of the Software Engineering Team. A great software engineer has a strong technical background and excellent coding skills. They are experienced in software design and possess the ability to work both independently as well as part of a team.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Core Job Duties – Develop embedded software solutions (~80% of Time)

- Solve software and hardware challenges in creative ways
- Develop software for new products
- Implement new feature requests and bug fixes on existing products
- Work on multiple projects in various phases of product life cycle
- Work with QA, Tech Support, Interop, and other groups to understand and provide solutions to customer issues
- Work both independently and collaboratively

Work with Hardware Engineering to vet and evaluate new product designs (~5% of Time)

- Write code to exercise and evaluate hardware

Independent Study (~5% of Time)

- Familiarize yourself with code, projects, products, and keep abreast of industry trends and changes

Assist Support (~5% of Time)

- Act as a higher tier Tech Support (rarely customer facing) , assisting with difficult tickets or problems that require more technical analysis than the Tech Support can provide

Special Projects (~5% of Time)

Special Projects as needed. May involve things like setting up servers for testing, assisting with IT functions, or evaluating new technologies.

QUALIFICATION REQUIREMENTS:**Job Requirements:**

- BS in Computer Science or comparable degree (or equivalent experience)
- 5+ years experience in professional software development on Linux
- Deep understanding of C/C++ and Python
- Deep understanding of Linux development
- Understanding of Linux and its internals (system, epoll, eventfd, timerfd, singalfd)
- Experience with unit testing
- Experience with integration testing

Preferred:

- UX/UI experience
- Experience with SQL databases, particularly sqlite3 and MySQL
- Understanding of VoIP protocols like SIP and RTP
- Knowledge of UML and other modeling languages
- Knowledge of build systems and build automation (particularly CMake, Autotools, and Buildroot)
- Familiarity with HTML, Bootstrap, and JavaScript

Reasoning Ability:

- Ability to define and solve practical problems and deal with a variety of concrete variables, occasionally in situations where only limited information exists. Must demonstrate troubleshooting successes.

Required Skills and Abilities

- Strong troubleshooting skills
- Strong problem-solving skills
- Ability to work independently and collaboratively
- Ability to quickly adapt and respond to changes in environment and priorities
- Excellent written and verbal communication skills – able to clearly communicate technical ideas with technical and non-technical colleagues and customers
- Self-motivated with the ability - and desire - to be involved and make a difference
- A technical mindset with great attention to detail

WORKING CONDITIONS:

Working conditions described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable qualified individuals with disabilities to perform the essential functions. Variations in conditions may occur under certain circumstances.

ENVIRONMENT:

- Approximately 95% of the time performing job duties is spent indoors, within a standard office environment.
- Approximately 95% of the time is spent on a computer.
- While performing the duties of this job, the employee works near moving mechanical parts and is occasionally exposed to the risk of electric shock.
- Noise level in the work environment is usually quiet.
- The temperature of the work environment is moderate and ranges from 65 – 80 degrees.

PHYSICAL DEMANDS:

- **Occasionally (6-33%):** bend, twist, push, pull, climb, squat, crawl, kneel, and drive.
- **Frequently (34-66%):** climb or balance; stand and walk; grasp with hands and fingers.
- **Continuously (67-100%):** sit, reach with hands and arms, use hands to finger, handle or feel objects, tools, or controls; see (including close vision, distance vision, peripheral vision, depth perception, and the ability to adjust focus), hear and speak; key (i.e., computer, calculator, telephone); and lift (up to 10 pounds).

MACHINES, TOOL AND EQUIPMENT:

- **Seldom (1–5%):** voltmeter, oscilloscope, hand tools
- **Occasionally (6-33%):** copier, telephone, and automobile
- **Frequently (34-66%):** writing instruments
- **Continuously (67-100%):** computer

TRAVEL:

- This job requires minimal travel within close proximity to the regular assigned work location.

Our Culture

CyberData is an extremely nimble and fast paced environment. We take pride in reacting quickly to our customers and developing new and innovative products for the VoIP, POS and IP Endpoint industries.

We are located in the beautiful Monterey Bay area and offer a great work life balance. We like new ideas, so bring an open mind and get ready for spirited collaboration. We are committed to creating and are positioned to offer the complete process for our customers. You will learn something new and face new challenges every day.

Team spirit is infectious. CyberData is an extremely open workplace where communication is essential. Not every idea will be accepted, but you will be asked for your point of view. Innovation thrives on multiple and varied levels. At CyberData we challenge conventional wisdom and refuse to accept that something cannot be done.

This is a full-time, non-exempt position, eligible for a great benefits package including a 401K plan. Position may be remote or located in Monterey, CA.