



Job Description: Senior Software Developer

Position Title:	Senior Software Developer	Exempt/Non-exempt:	Exempt
Department:	Software Engineering	Full/Part Time:	Full
Reports to:	Director of Software Engineering	Permanent/Temporary:	Permanent

Position Summary

Maintain embedded system and software for Ampt Communication Units, windows-based installation tools, data aggregation software and support related software, hardware, data and communication as well as implement future software and communication products.

Essential Job Functions (Roles and Responsibilities)

1. Create and maintain technical documentation for all Communication Unit (CU) functions and features.
2. Research and maintain embedded Linux operating system for the CU.
3. Implement server, embedded and cloud-based data aggregation, processing and reporting software, APIs and user interfaces.
4. Implement Windows, Linux and mobile software products as part of an entire data ecosystem (IoT and embedded/installed software, databases, reports etc.)
5. Create and maintain (using source control) software to satisfy requirements provided by the Director of Software Engineering
6. Coordinate with other hardware, firmware and software staff on interoperability with other Ampt products (e.g. Ampt Optimizers, Installation Assistant, Aggregator)

Essential Job Requirements

Education:

Minimum BS in Computer Science or equivalent experience (minimum 8 years) in software development, Linux Kernel Builds and networking.

Experience:

Linux system administration and networking. Software development, testing and quality assurance. Software source control and automated testing.

Required Skills:

- Ability to learn new technologies and processes

	CT-0001	Job Description Template		Page:	1 of 2
	Owner:	Laura Miller	Dept:	HR	Rev:

- C/C++ programming languages and additional programming languages as needed (Lua, Bash, Python, JavaScript, HTML, CSS, etc.)
- Hardware-compatible Linux Kernel builds.
- Open Source Software license compliance.
- Networking, SSH, VPN, remote system administration.
- Amazon or similar cloud-based servers and services
- Database management and development, both SQL and NoSQL
- Familiarity with IoT devices and data acquisition
- Familiarity with wireless networking topologies (WiFi, Z-Wave, Zigbee, Thread, etc.)

Preferred Skills:

- Good personal communication skills, verbal and written skills
- MatLab
- Network security

	CT-0001	Job Description Template			Page: 2 of 2
	Owner:	Laura Miller	Dept:	HR	Rev: A