Embedded Linux Engineer

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Company: cellebrite

Location: Israel

Category: other-general

About The Position

Our Mission

Cellebrite's (Nasdaq: CLBT) mission is to enable its customers to protect and save lives, accelerate justice, and preserve privacy in communities around the world. Cellebrite is a global leader in Digital Intelligence solutions for the public and private sectors, empowering organizations to master the complexities of legally sanctioned digital investigations by streamlining intelligence processes. Trusted by thousands of leading agencies and companies globally, Cellebrite's Digital Intelligence platform and solutions transform how customers collect, review, analyze, and manage investigative digital data in legally sanctioned investigations.

What is Your Mission?

As an Embedded Linux & Security Engineer at Cellebrite, your daily mission involves crafting custom Linux images tailored for our embedded platform, which plays a crucial role in unlocking phones and extracting forensic evidence for law enforcement agencies. Your expertise will also be pivotal in developing and enhancing the Board Support Package (BSP) layer, ensuring the highest level of security for our platform. This position, nested within our security research department, requires close collaboration with research teams to tackle and anticipate the security challenges of tomorrow to bypass security mechanisms Jof modern phones.

Core Responsibilities:

Develop and maintain custom Linux images for our embedded platform, optimizing

performance and security.

Design and implement the BSP layer, ensuring compatibility and efficiency across different hardware configurations.

Identify, analyze, and mitigate potential security vulnerabilities.

Engage in innovative problem-solving activities, contributing to the development of new technologies and methodologies.

Maintain up-to-date knowledge of the latest security threats, trends, and technologies.

What You'll Love About Your Mission:

You'll thrive in a role that blends technical challenges with a profound impact on society. You'll contribute to product that play a vital role in law enforcement and public safety. Our collaborative environment offers endless opportunities for professional growth, letting you work side by side with some of the brightest minds in security research and embedded systems development. This position is not just a job; it's a mission to make the world a safer place, with innovative challenges and the chance to solve complex problems daily.

The skills we are looking for:

5+ years of low-level development experience.

Bachelor's or Master's degree in Computer Science, Electrical Engineering, or an equivalent military experience.

Proficiency in developing custom Linux images and BSP for embedded systems with experience in Buildroot/Yocto/custom build systems.

Strong programming skills in C, C++, and Python.

Extensive knowledge of Linux internals and a solid understanding of security and cryptography (block ciphers, PKI, cryptographic hashes, MACs, code signing).

Experience with embedded systems and low-level programming (RTOS/bare-metal), including SPI and I2C communications.

Advantages:

Experience with Rust and/or Go programming languages

Familiarity with CI/CD pipelines and practices.

Knowledge of secure boot mechanisms.

Knowledge of USB communication.

Personal Characteristics

Exceptional problem-solving skills and analytical mindset.

Effective communication skills, capable of working collaboratively with cross-functional teams.

Creative thinking and the ability to tackle challenges with innovative solutions.

Strong organizational skills and the ability to manage multiple priorities simultaneously.

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