

Senior Video Software Engineer

ABOUT THE COMPANY

Persistent Systems is a growing business that develops Mobile Ad hoc Networking (MANET) wireless radio systems for US Government and commercial applications. The radios are typically worn on the person, mounted to manned vehicles, integrated into autonomous unmanned vehicles, or installed at fixed sites. The systems provide on-the-move data, voice, video, and situational awareness capability. Located in the heart of New York City, Persistent Systems is an exciting company that is passionate about delivering cutting edge products.

JOB DESCRIPTION

We are looking for talented Software Engineer with extensive experience in software development for video encoding, decoding, and streaming processes.

EDUCATION:

Applicant must have B.S., M.S., or Ph.D. in Computer Science, Electrical Engineering or similar discipline

POSITION RESPONSIBILITIES

1. Develop and modify drivers for raw video input and accelerated video transformation and encoding; scaling, frame reduction, overlay, de-interlacing
2. Software development to receive streaming video, decode, manage going through hardware decoding, and managing through transformations.
 - a. Develop advanced capabilities such as receiving (4) video streams and displaying simultaneously in (4) quadrants of single viewer
3. Build framework for user input to control and configure video processing
4. Develop software to achieve low-latency, high quality video streams; leverage adaptive jitter buffer management, error correction/recovery
5. Develop software for common clients including but not limited to VLC, ffmpeg, GStreamer

QUALIFICATIONS / EXPERIENCE

- 5+ years of work experience in software design and development
- Expert knowledge of C and C++
- Experience with performing hardware acceleration (drivers and framework)
- Strong knowledge of various video codec standards, especially h264, network adaptation layer, sub-units, NAL units,
- Experience with implementing MPEG transport stream
- Experience with Real-time Transport Protocol (RTP)
- Experience with adaptive bit-rate
- Experience with Android media layer
- Experience with RGB, YUV frame formats
- Experience with de-interlacing
- Experience with open source video processing tools such as x264 and ffmpeg is a big plus
- Must be proficient at debugging live production systems in the Linux environment

****Applicant must have a security clearance or able to obtain a security clearance.****

EMPLOYEE BENEFITS

The total value of your compensation at Persistent Systems is worth significantly more than just a paycheck. Persistent Systems offers health insurance (medical, dental), and we provide multiple plans to suit individual needs. We also offer a matching contribution retirement plan and a flexible spending plan.

APPLY

Please send a resume and cover letter, and compensation requirements.

