Brief descriptions of the technical job opportunities at Altia Systems

Computer Vision: We are seeking an exceptional Computer Vision Image Processing Scientist to join our innovative engineering team working on advanced computer vision based algorithms and image analysis software for cutting edge panoramic image stitching, face detection and recognition and other interesting applications.

Video Processing: We are seeking an exceptional Video Processing Engineer to join our innovative engineering team working on advanced video processing algorithms like Scalable Video Coding (SVC), H.265, error resilience techniques and robust error recovery against severe packet drops.

Speech Processing: We are seeking an exceptional Speech Processing Engineer to join our innovative engineering team working on advanced speech processing algorithms robust error recovery against severe packet drops with wide-band speech codecs like Opus, wide-band acoustic echo cancellation, wide-band microphone array beam-forming.

Web Applications: We are looking for full-stack web application engineer to join our innovative team of engineers working in the UC space, for developing dynamic websites using Angular JS and Django.

Computer vision software engineer:
We are seeking an exceptional Computer Vision Image Processing Scientist to join our innovative engineering team of engineers and scientists. This is a unique opportunity to research, develop and launch ground-breaking technology.

MAJOR DUTIES AND RESPONSIBILITIES
This position will work within our algorithm team of scientists and engineers and is responsible to research, analyze, investigate, develop, implement and validate advanced computer vision based algorithms and image analysis software for cutting edge panoramic image stitching, face detection and recognition and other interesting applications.

- Research, design, implement, and validate algorithms and software solutions related to image feature extraction, image classification, optical flow, etc.
- Work with the software engineering and test teams to implement algorithms from prototype to product release.
- Work closely with the software and test teams to transfer, productize and test computer vision algorithms and related software from initial prototype through full product life cycle.
- Work with marketing and quality teams to improve customer experience and product performance.

Education and Professional Experience:

- M.S. or Ph.D in Computer Science or related field with 3-5 years related computer vision algorithm development and software engineering experience.
- Expert knowledge of OpenCV and OpenCL required.
- Demonstrated experience in real-time computer vision and image processing.
- Experience with software engineering including object-oriented design and C++, source code control and bug tracking systems.

Audio software engineer:
We are seeking an exceptional Speech Processing Engineer to join our innovative engineering team of engineers and scientists. This is a unique opportunity to research, develop and launch ground-breaking technology.

MAJOR DUTIES AND RESPONSIBILITIES
This position will work with our core engineers and is responsible to research, analyze, investigate, develop, implement and validate advanced speech processing algorithms robust error recovery against severe packet drops with wide-band speech codecs like Opus, wide-band acoustic echo cancellation.

- Research, design, implement, and validate algorithms and software solutions related to robust error recovery, FEC, AEC, acoustic beamforming using microphone arrays, VAD etc.
- Work with the software engineering and test teams to implement algorithms from prototype to product release.
- Work closely with the software and test teams to transfer, productize and test algorithms and related software from initial prototype through full product life cycle.
- Work with marketing and quality teams to improve customer experience and product performance.

Education and Professional Experience:

- M.S. or Ph.D in Computer Science or related field with 5 years related audio processing algorithm development and software engineering experience.
- Expert knowledge of Opus, G729 required.
- Demonstrated experience in real-time audio processing including audio mixers, AEC.
- Experience with software engineering including object-oriented design and C++, source code control and bug tracking systems.
- Demonstrated capability to work in different OS platforms (Windows, OSX, Linux).
- Demonstrated ability to deliver results in a challenging fast paced environment

Video software engineer:
We are seeking an exceptional Video Processing Engineer to join our innovative engineering team of engineers and scientists. This is a unique opportunity to research, develop and launch ground-breaking technology.

MAJOR DUTIES AND RESPONSIBILITIES
This position will work with our core engineers and is responsible to research, analyze, investigate, develop, implement and validate advanced video processing algorithms like Scalable Video Coding(SVC), H.265, error resilience techniques and robust error recovery against severe packet drops.

- Research, design, implement, and validate algorithms and software solutions related to SVC, error resilience, H.265.
- Work with the software engineering and test teams to implement algorithms from prototype to product release.
- Work closely with the software and test teams to transfer, productize and test algorithms and related software from initial prototype through full product life cycle.
- Work with marketing and quality teams to improve customer experience and product performance.

Education and Professional Experience:

- M.S. or Ph.D in Computer Science or related field with 5 years related video processing algorithm development and software engineering experience.
- Expert knowledge of libavcodec, libavformat etc required.
- Demonstrated experience in real-time video processing.
- Experience with software engineering including object-oriented design and C++, source code control and bug tracking systems.
- Demonstrated capability to work in different OS platforms (Windows, OSX, Linux).
- Demonstrated ability to deliver results in a challenging fast paced environment.

Web Applications Engineer:
We are looking for full-stack web application engineer to join our innovative team of engineers working in the UC space.

MAJOR DUTIES AND RESPONSIBILITIES

- Develop websites using Angular JS and Django behind a mix of NGINX/Apache servers.
- Demonstrated capability to design and develop highly scalable architectures for dynamic web sites.
- Keen knowledge of JQuery, OAUTH and other web technology tools.
- Demonstrated ability to develop appealing website with latest trends in UI/UIX paradigms.

Education and Professional Experience:

- M.S. or Ph.D in Computer Science or related field with 5 years software engineering experience.
- Expert knowledge of web back-ends and front-ends.
- Demonstrated ability to interface to payment processing systems.
- Experience with software engineering including object-oriented design, source code control and bug tracking systems.
- Demonstrated capability to work in different OS platforms (Windows, OSX, Linux).
- Demonstrated ability to deliver results in a challenging fast paced environment.

About Altia Systems

Altia Systems™ is a venture-backed company based in Cupertino, CA, and creator of the PanaCast™ Experience: a unique, award-winning solution which enables anyone on desktop or mobile to communicate with participants around the world in an immersive, interactive, individualized way, using real-time Panoramic-4K 180° field-of-view video, which replicates the human visual perspective and HD audio. The PanaCast 2 camera seamlessly upgrades popular collaboration suites with 180° field of view panoramic video. See altiasystems.com for more information.

The PanaCast® Experience allows people to communicate immersively as a group, in real time, in a natural and personal way, from anywhere in the connected world. Each participant receives natural-looking 180° Panoramic-4K video streams on their own devices, with HD audio. They can then “look around” in the video streams on their own, as if they were there by using touch enabled gestures, without disturbing other participants’ experience. Discussions flow naturally and freely in PanaCast® sessions, helping people see more and do more in less time during personal and business communications.