Senior Staff Engineer: Image Processing
Research & Development

Location: Vancouver
State: BC
Job ID: 1455
Duration: Full Time

This position will investigate perceptual aspects of the human visual system. New techniques for appearance modeling will be developed, as well as improved methods of tone and gamut mapping across a wide range of video display technologies. Additionally, it will demonstrate their application to both consumer and professional markets by taking concepts to hardware/software prototype implementations. Work will be performed in a small collaborative team environment involving frequent interaction with other internal groups.

Position Requirements:
- MSEE or equivalent.
- Minimum of 9 years of related industry experience.
- In depth knowledge of color science & color management systems.
- Knowledge of digital signal processing theory and practice.
- Knowledge of video processing algorithms and real-time implementation.
- Proficient in Matlab and/or C language programming.
- Excellent communication skills.
- A team oriented work ethic.
- Expertise in one or more of the following areas is highly desirable:
  - Understanding of advanced display technologies and related processing.
  - Track record of successful concept to prototype implementation.

Essential Job Functions:
New Technology Development
- Conceive, develop and refine new concepts for product and licensed applications.
- Determine best approaches to solve technical problems to meet market requirements.
- Employ well designed and controlled experimental methodologies in all work.
- Assist others in productive application of experimental procedures.

Concept Implementation
- Define and establish technology requirements and performance goals.
- Create prototype hardware and/or software that is efficient, modular, bug free, understandable to others and well documented
- Assist in reviewing prototype designs.
- Conceive and develop proof of performance test and evaluation procedures and ensure requirements are met.
- Maintain software and/or firmware archives.
Technical Leadership
- Maintain a productive and collaborative technical environment which fosters creativity and development of practical solutions to problems.
- Provide insightful and strategic technical direction to others.
- Maintain an up-to-date perspective and knowledge of competitive and complementary technologies.
- Assist product groups through applied research towards well defined goals.
- Assist management in setting technical goals for the company.

Project Management
- May serve as project lead on critical Research projects.
- Assist in development of budgets and staffing requirements.
- Collaborate with peers to maximize project team productivity.

Liaison
- Organize and/or deliver internal and external technology presentations and demonstrations as required.
- Effectively interact, support and work with other groups in the company, such as others in Research, Product Engineering, Marketing and Licensing to ensure efficient transfer of ideas.
- May represent the company’s business interests on industry committees.

Documentation and Patent Work
- Systematically prepare complete and accurate technical documentation.
- Maintain a lab notebook which thoroughly documents approach in Research experiments and results, suitable for patent support purposes.
- Work closely with patent liaison to provide complete and well written (precise) disclosure input for the generation of patent applications.
- Support patent attorney’s efforts in response to office actions and in prosecution of patent applications as required.

CONTACT:
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