Senior Software Developer – Robotics

At EPSON we have a passion to innovate. Our engineers develop and advance EPSON's leading-edge technologies throughout product lines comprised of information-related equipment such as printers, scanners, projectors, robots and augmented reality devices. Epson products are well known around the world for their superior quality, functionality, compactness and energy efficiency.

Our R&D team at EPSON Canada researches and develops cutting-edge computer vision technologies and converts conceptual research outcomes into tangible customer applications. Technologies developed at Epson Canada have a global reach.

We are seeking a Senior Software Developer with significant technical skills.
The successful candidate will be involved in all software development cycles including technical requirements gathering/arbitration, design, development, optimization, integration and productization of computer vision technologies for the next generation of Epson Robots products.
The role requires the use of judgement, managing multiple priorities, and independent decision-making when working in a team of researchers and developers.

Responsibilities:

- Define, create and maintain software and technical requirements.
- Create software and technical designs based on requirements and participate in design reviews to provide feedback on product designs, schedule and potential problems.
- Develop software to implement research algorithm prototypes and develop automated unit tests to ensure that software meets the requirements and acceptance criteria.
- Prepare system/software test/evaluation plans, support trouble shooting issues and actively communicate the results to management and stakeholders.
- Create, communicate, prioritize, execute and track software tasks and schedules.
- Create and periodically update the system/software requirements/design documentation.

Essential Skills & Requirements:

- Advanced University Degree in Computer Science, Computer Engineering or related technical discipline.
- 5+ years of hands on experience in designing and developing algorithms and software applications in the related fields of image processing, pattern recognition and computer vision.
- 5+ years of professional software development and test experience with fluency in C/C++.
- Strong design, debugging, and problem solving skills.
- Experience with large scale image evaluation and performance testing.
- Well organized with excellent verbal and written communication skills.
- Team player, with an energetic and proactive attitude.

- Excellent communication skills with the ability to collaborate with researchers and developers.
- Ability to travel unrestricted within Canada and to USA, Japan, and possibly other destinations.

Additional Skills:

- Advanced skills in GPU and/or OpenCL programming.
- Knowledge and experience in robotics and industrial robots.
- Proven track record in developing and practical use of software and procedures for mechatronics system calibrations, including camera calibration.
- Understanding and practical experience with optical systems and lighting.
- Understanding of statistical modelling and machine learning.

Terms of employment – Full time Position

Only qualified candidates should submit their resumes quoting Software Developer in the subject line to: hrcanada@ea.epson.com.
Please include your salary expectation.

We thank all candidates who apply, however, only those selected for an interview will be contacted.