Computer Vision Engineer

What we do:
Zebra Technologies Corporation’s Chief Technology Office is an intrapreneurial team creating innovative solutions for the retail, transportation & logistics, warehouse, and healthcare markets. These “first of a kind” solutions are helping retail managers improve their store operations & better serve their customers and are helping T&L managers enhance the efficiency of their loading operations.

The Multimedia Analytics Innovation Team within the CTO focuses on advanced development and application of emerging visual and audio analytics technologies in innovative end-to-end system prototypes to solve real-world problems and then advance these systems into new businesses. Our team’s expertise includes machine learning, computer vision, natural language processing, embedded Linux systems, web services, and mobile applications.

What you will do:
As a Research Engineer collaborating with members of our team, you will contribute to the advancement of cutting-edge prototype solutions by developing computer vision algorithms and software implementations, using 3D sensors, image sensors, and other data sources. This includes:
- Creative problem solving based on customer visits and requirements gathering;
- Researching, developing, implementing, and testing computer vision and image analysis algorithms, and their application to promising new business opportunities;
- Collaborating in cross-functional teams to develop system prototypes, integrating image analytics algorithms and software;
- Generating patent disclosures covering the algorithms created and the systems enabled;
- Presenting results and demonstrations at internal meetings, customer meetings, and external professional conferences.

Basic Qualifications:
Master Degree with at least 2 years of industry experience or a Ph.D. Degree, in Computer Science, Computer Engineering, Electrical Engineering, or related field, with a concentration in machine learning and computer vision.

Specific Knowledge/Skills:
- Graduate-level studies in machine learning, computer vision, and image/video signal processing.
- 5+ years experience programming using C, C++, and object-oriented design methods.
- Solid foundation in computer vision; key areas of interest include object detection, tracking and recognition; multiple view geometry, 3D computer vision and SfM/SLAM.
- Solid foundation in machine learning, including latest advances in deep neural networks and on turning machine learning technologies into practical system implementations.
- Solid foundation in software development process and tools.
- Experience using OpenCV for computer vision and image analysis algorithm development.
- Experience with PCL, OpenNI, and 3D depth sensors is preferred.
- Experience with CUDA drivers, GPU programming, Linux architecture and Robotic OS is a plus.
- Programming experience on Android platforms is a plus.
- Industry experience a plus.
- Strong teamwork, communication skills, passion, creativity, productivity & learning agility.

Learn more about Zebra Technologies at www.zebra.com and Zebra career opportunities at http://www.zebra.com/careers. To apply for this position, please view Job ID number 36253 and submit your resume there.