



ALGORITHM ENGINEER

About GEO Semiconductor

GEO Semiconductor (GEO) is the industry leader in programmable, high performance processors for video and geometry processing. GEO has two platform technologies - Realta™ (real-time processing of video algorithms in software, 1 trillion ops/sec) and eWarp™ (allowing the trade-offs between optical systems and pixel processing, enabling the merging and de-warping of multi-camera capture systems, and making possible low-cost, precise correction of LCD and OLED panel color and brightness uniformity issues). These platform technologies enable totally new products and features, at resolutions of 1080P and beyond. Next generation processors will address mobility markets including smartphones and automotive cameras. GEO is headquartered in Santa Clara, California with offices in Toronto and Orlando, and sales channels around the world.

WE HAVE AN IMMEDIATE NEED IN OUR TORONTO OFFICE FOR AN ENTRY LEVEL ALGORITHM ENGINEER

POSITION DETAILS:

The successful candidate will be responsible for:

- Development and implementation of DSP applications in software and possible hardware (FPGAs).
- Define and verify image processing algorithms.
- Analysis of data pursuant to algorithm development including analysis of data to understand DSP needs and problems.
- Conducts problem solving techniques to solve problems of a complex nature. Engineering and mathematical principles are utilized to compose algorithm solutions to problems. Debugs and assesses performance.
- Writes code in assembly and high-level languages (C/C++, MATLAB). Writes software to implement DSP functions including bit-accurate modelling of DSP related hardware blocks.
- Assesses performance of DSP algorithms by writing simulations.
- Provides demonstration of new and existing technologies, as well as training customers on DSP related tools and functionality.

QUALIFICATIONS

The successful candidate will have the following technical skills:

- Degree (BSc/MSc) in electrical engineering, computer science, physics or equivalent.
- Preferably some background in image and video processing – at a minimum, a course(s) in digital signal processing.
- Strong mathematical background and understanding of technical algorithm development.
- Strong programming skills in C/C++ and MATLAB.
- Knowledge concerning the implementation of DSP algorithms in embedded processors and /or FPGAs.
- Experience using embedded Software development tools.

The successful candidate will have the following personal skills:

- Highly motivated and hard working.
- Ability to work successfully and positively in a team or individual environment.
- Possesses strong ability to collaborate and problem solve.
- Must thrive in an environment with high expectations for successful outcomes and delivery.
- Ability to communicate effectively (written and oral) in English.
- Ability to meet given deadlines
- Excellent interpersonal skills.