



## Senior Autonomous Vehicle Software Developer

**Position Type:** Full-Time

**Location:** Kitchener, Ontario

Core Avionics & Industrial is looking for a Senior Autonomous Vehicle Software Developer to lead product definition and creation of safe software libraries for embedded autonomous vehicle systems. The libraries will target compute and display applications for vehicle systems. CoreAVI has been a key participant in defining the [OpenGL SC 2.0](#) specification and continues to be active in the [Khronos Group](#) defining new safety critical standards. We pride ourselves on having a world class software team developing the latest graphics and compute software powering today's and tomorrow's most advanced avionics, automotive, and embedded systems. Preferred candidates will understand real time operating systems, firmware, hardware architectures (especially GPUs) and safe software development practices. Candidates must be self-driven, highly creative, and very resourceful. This position provides the flexibility to be based in one of our office locations, or to work from home. Some travel will be required.

### Why work for CoreAVI?

CoreAVI is very much an employee first, family first company. With some of the top software engineers, and a driven, knowledgeable sales team, CoreAVI is the world's leading supplier of graphic and video drivers for real time safety critical systems. CoreAVI actively participates in the next generation of safety critical graphics APIs as defined by the Khronos Group.

CoreAVI fosters a cohesive work environment, encouraging teamwork and sharing organizational successes. If you are looking to join an organization which truly understands the meaning of work-life balance by offering flexible hours, a talented and supportive team, an independent work environment, and niche software products relied upon worldwide, CoreAVI is the organization for you.

Some of the reasons our team enjoys working at CoreAVI are:

- **Technically challenging and rewarding work.** Working on the leading edge of new CPU and GPU technology, our team is always doing something new and innovative. The reward of seeing the work you contributed to driving the displays of the aircraft you are flying on is something you will never forget!
- **Teamwork.** Everyone says it, but we really have it. Our team will not watch one person struggle with an issue, they really do support them. Everyone is here to help because we know that meeting customer needs is critical to our success and working together is the only way to get there.
- **Small Company Culture.** As we have grown from a small company to the medium one that we are today, we have maintained the values we have always had. We have a great sense of camaraderie and a 'get it done' attitude which is not hindered by layers of company bureaucracy.



- **A company that is growing.** We know that when a company sticks to what they have always done, not only will they not grow, they'll fall backwards. That's why we're not frightened to lead our industry with innovative new products that customers need now and we react quickly to do it. To keep up with that growing demand, we are growing fast and we need more talent to help us.

As CoreAVI continues to grow and expand into new markets, we need creative, self-driven individuals to join our team and share in the success, but more importantly, enjoy the journey there. So, if you like the sound of what our team enjoys today, and you want to be part of our tomorrow, here's what we are looking for.

### **Main Responsibilities:**

- Developing next generation embedded graphics and compute focused drivers and software
- Enhancing existing products for new customers and new markets
- Bringing CoreAVI's software solutions to new embedded systems
- Solving embedded system integration challenges
- Support new Real-Time Operating System configurations
- Profiling and optimizing drivers and applications
- Creating test cases and ISO26262 safety critical certification artifacts
- Writing and reviewing technical specifications
- Work as a team to produce reliable, high quality, safety critical software

### **Desired Skills:**

- Bachelor's degree in Computer Science or related field
- 5+ years of experience in embedded software development (C/C++)
- Outstanding verbal and written communication skills are critical
- Strong organization and technical skills
- Excellent analytical/problem solving skills
- Ingrained sense of accountability and ownership
- Continuous drive for learning, pushing technical limits and find new solutions
- 3+ years of experience developing, debugging and troubleshooting embedded graphics or compute drivers an asset
- Experience with embedded operating systems and ISO26262 software development an asset

If you are interested in working for CoreAVI, please send your resume and some information about yourself to [resumes@coreavi.com](mailto:resumes@coreavi.com)