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CoreAVI Demonstrates its Safe AI and Accelerated GPU Compute Software Suite at MOSA Industry & Government Summit & Expo

Tampa, Florida, June 17, 2024: CoreAVI has announced it will showcase its Safe AI and Accelerated GPU Compute solutions in booth 128 at the MOSA Industry & Government Summit & Expo June 17-18, 2024 in National Harbor, Maryland. CoreAVI's AI application development tools, libraries and deployment infrastructure includes its VkCore® SC implementation enabling high-performance compute acceleration as well as ComputeCore™, CoreAVI's AI/ML acceleration library providing APIs for BLAS, FFT, and a neural network inference engine.

This open standards-based AI product suite supports all MOSA requirements and is designed from the ground up to provide scalable performance and functionality enabled by harnessing the full capability of GPU acceleration and to facilitate the safe execution of AI models and computational-based applications. Its execution platform infrastructure and inferencing engine is built for high reliability and RTCA DO-178C safety certification up to DAL A.

CoreAVI's Safe AI software stack is based on platform-agnostic open standards which allow the rapid insertion of the most competitive warfighter technologies. The toolset is compatible with and designed to execute Tensor Flow, Pytorch, Caffe, ONNX and other popular neural network modeling tools and frameworks. CoreAVI's Safe AI stack has been deployed in critical flight systems such as Airbus' UpNext program demonstrating Autonomous Assets Air to Air Refuelling operations that executed safe neural network inferencing to operate Airbus DT-25 drones and 2 more digital twins under the control of an A310 MRTT tanker.

In a February 12th, 2024 press release, Airbus acknowledged the use of CoreAVI's Safe AI product suite in flight as a critical element to the success of their program: "AI technology will be quintessential in the future of our industry and CoreAVI's Safe AI stack has proven to be an exceptional enabler for these integrations. This particular iteration demonstrates our commitment to the future mosaic warfare and unmanned/manned aircraft teaming; we are ready for Autonomous Operation and committed to developing the most capable interoperable system of systems for air dominance."

"CoreAVI's suite of Safe AI tools, libraries and open standards abstraction layer sets the stage for the future of software defined embedded systems meeting FACE and MOSA specifications," said Dan Joncas, Deputy CEO at CoreAVI. "Our customers are experiencing a growing demand for the safe acceleration of GPU compute, and CoreAVI's cutting edge AI/ML software technologies ensure they have the best in modern airborne compute capabilities."

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About Core Avionics & Industrial Inc.

CoreAVI is the global leader in architecting and delivering safety critical graphics and compute software drivers and libraries, embedded 'system on chip' and discrete graphics processor components, and certifiable platform hardware IP. CoreAVI's comprehensive software suite enables development and deployment of complete safety critical solutions for automotive, industrial and aerospace applications requiring certification to the highest integrity levels coupled with full lifecycle support. CoreAVI's solutions support both graphics and compute applications including safe autonomy, machine vision and AI in the automotive, unmanned vehicle and industrial IoT markets, as well as commercial and military avionics systems. www.coreavi.com

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