



Dr. Musliner is a Senior Staff Scientist at Smart Information Flow Technologies (SIFT), specializing in real-time intelligent autonomous systems. In 1988, Dr. Musliner earned his BSE degree in Electrical Engineering and Computer Science from Princeton University. For his 1993 Ph.D. at the University of Michigan, Dr. Musliner designed and implemented the Cooperative Intelligent Real-Time Control Architecture (CIRCA), one of the first AI control architectures capable of reasoning about and interacting with dynamic, hard real-time domains. Since then, Dr. Musliner has applied CIRCA and other AI planning and control methods to control oil refineries, teams of UAVs, ground robots, air traffic management, and cyber defense systems.

In 1995, Dr. Musliner joined the Automated Reasoning group at the Honeywell Technology Center, where he led research projects on real-time tasking and control of autonomous assets (UAVs and ground robots), time-sensitive multi-agent planning and scheduling systems for human coordination, and various other meta-reasoning, planning, and execution applications including autonomous computer security systems, petroleum refinery control, and air traffic management.

In 2008, Dr. Musliner joined SIFT, a small research company specializing in intelligent autonomy and human-centered systems. He is currently investigating new concepts in high-confidence controller synthesis, formal verification for spacecraft operating procedures, cyber defense, and planning for autonomous satellite defense.

Dr. Musliner has been a committee member and session chair for several IARIA conferences including INNOV, ICDS, ICAS, and ICONS. He has published several papers in IARIA conferences and journals, participated on multiple panel sessions, and delivered a keynote lecture entitled: "From Unmanned Vehicles to Cyber Security: More Than Twenty Years of CIRCA Research Towards Trusted Autonomy" in the 2015 ICDS conference (Lisbon, Portugal).