

Autonomous Systems: The Future is Here, But Are We Ready?

Systèmes autonomes : l'avenir est là, mais sommes-nous prêts ?

Carleton University

Umair Siddique, Ph.D., Co-Founder, reasonX Labs

Time: Tuesday December 10, 1:00pm-2:00pm

Room: CB 2104 (Canal Building main floor).

Theme of the Talk: Safety in autonomy and robotics or generally any complex system.

Overview: Autonomous systems promise to transform industries, improve our lives, and boost our economy. But to fully realize these benefits, we need to build a foundation of trust through rigorous safety standards and scalable deployment strategies. In this presentation, we'll break down the key concepts, from understanding different types of autonomous systems to navigating the complex world of safety regulations and AI integration. We'll discuss academia's potential contributions and the support available through reasonX Lab.

Biography: Umair Siddique is the co-founder and CEO of ReasonX Labs ([reasonX](#)). He has over 15 years of experience in safety assurance, verification, and the auditable deployment of safety and mission-critical systems. This includes highly automated vehicle technologies, critical core software used in millions of devices, and hardware integrated into electric vehicles. Umair has worked in Silicon Valley and Canada with companies such as Apple — Special Projects Group, Bosch Research and Technology Center, BlackBerry QNX, and Magna International. He also served as an NSERC postdoctoral fellow and completed his PhD in Formal Methods at Concordia University, Montreal.

He has over 30 papers and 3 US patents pending in formal methods and sensors fusion.

This talk is in-person. However, we will try to connect remote participants via the following link.

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