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PROFILE

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Ramesh Bharadwaj, PhD, is Senior Researcher at the US Navy's Center of Excellence in High Assurance Systems. His research on rigorous engineering methods and tools encompasses the specification, design, and construction of tactical mission-critical systems, including communications, radar, and electronic warfare systems.

He is Project Manager on a research effort whose goal is to create developer-friendly guidelines, methods, and tools that ensure dependability, security, safety and trust in tactical autonomous unmanned systems.

These methods and tools are intended to provide protection against adversarial attacks, resulting in autonomous systems engineered to be agile, resilient, and resistant to threats.

Through results of this research, systems and software engineers with limited expertise in mathematically intensive formal methods and tools can better understand threats and risks associated with the operation of tactical autonomous systems.