

Cameron N. Riviere

Associate Research Professor

[The Robotics Institute](#), Carnegie Mellon University
Pittsburgh, [Pennsylvania](#)

My research involves biomedical applications of high-precision human-machine interfaces (e.g., active tremor canceling for manual microsurgery), control systems, learning algorithms, adaptive signal processing, and mechatronics.

Education

[The Johns Hopkins University](#)
Baltimore, [Maryland](#)

Ph.D. in [Mechanical Engineering](#), September 1995

Thesis: "Adaptive Suppression of Tremor for Improved Human-machine Control."

Advisor: [Nitish V. Thakor](#), [Department of Biomedical Engineering](#)

[Virginia Polytechnic Institute and State University](#) (Virginia Tech)
[Blacksburg](#), [Virginia](#)

B.S. in [Aerospace Engineering](#), December 1989

B.S. in Ocean Engineering, December 1989

Minor in [Music](#)

Awards

- Best Mini Presentation, 2007 Annual Scientific Meeting, International Society for Minimally Invasive Cardiothoracic Surgery: T. Ota, N. A. Patronik, C. N. Riviere, M. A. Zenati, "Epicardial injection using a miniature crawling robotic device through a subxiphoid approach."
- Second Place, IEEE Engineering in Medicine and Biology Society Whitaker Foundation Student Paper Competition, 1995.
- National Research Council Postdoctoral Research Associateship Award, NASA-Ames Research Center, 1995 (declined in favor of CMU).
- National Research Council Postdoctoral Research Associateship Award, U. S. Army Armament Research, Development, and Engineering Center, 1995 (declined in favor of CMU).