

The EECS Faculty at CUA

- **Farid Ahmed, Ph.D.**, associate professor, University of Dayton; Digital watermarking, multimedia authentication, data and network security, optical information processing, and wireless networks; senior member of the IEEE.
- **Mohammed Arozullah, Ph.D.**, ordinary professor, University of Ottawa; high speed computer communication networks, optical networks, integration of IP-over-DWDM, wireless networks, multimedia communications, simulation of networks.
- **Sameh Elsharkawy, Ph.D.**, assistant professor, University of Maryland; real-time and embedded systems, parallel and distributed processing, operating systems, and computer systems architecture.
- **Ozlem Kilic, Ph.D.**, assistant professor, George Washington University; antennas for military applications and satellite systems, electromagnetic wave propagation.
- **Scott Matthews, Ph.D.**, assistant professor, University of Maryland; application of laser direct-write techniques for embedding electronic and micropower components, laser direct write processing for biological applications.
- **Robert Meister, Ph.D.**, professor emeritus, The Catholic University of America; electric and anelastic properties of materials.
- **Mark S. Mirotznik, Ph.D.**, associate professor, University of Pennsylvania; study of the interaction of electromagnetic energy with biological systems and biomedical instrumentation.
- **Nader Namazi, Ph.D.**, ordinary professor and chair, University of Missouri-Rolla; application of detection and estimation theory to signal/image processing, free-space optical communications; senior member of the IEEE.
- **Charles C. Nguyen, D.Sc.**, ordinary professor and dean, The George Washington University; system theory, robotics, robot control, machine vision, control of large space structures, intelligent control, fuzzy control.
- **Phillip Regalia, Ph.D.**, ordinary professor, University of California, Santa Barbara; iterative decoding and equalization, wireless communications, adaptive signal processing; editor-in-chief, EURASIP J. Wireless Communications and Networking; IEEE Fellow.
- **Jason Xuan, Ph.D.**, assistant professor, University of Maryland; computational bioinformatics, molecular imaging, medical image analysis, computer vision and intelligent computing, computer graphics and visualization.

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<http://engineering.cua.edu/eecs>



Nader Namazi, Chair

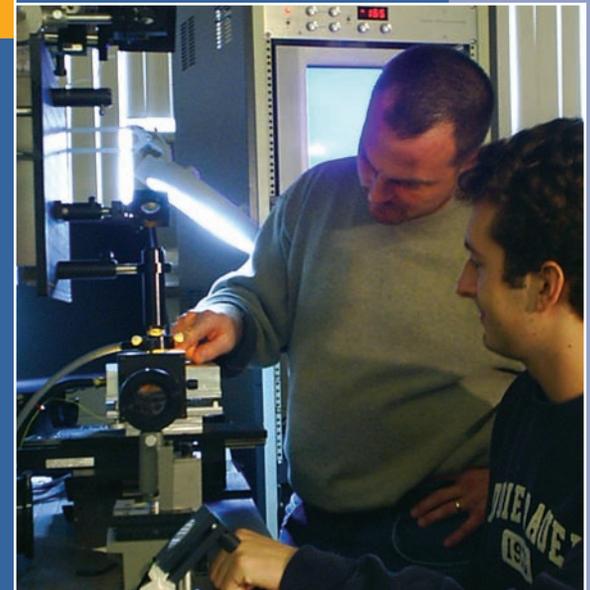
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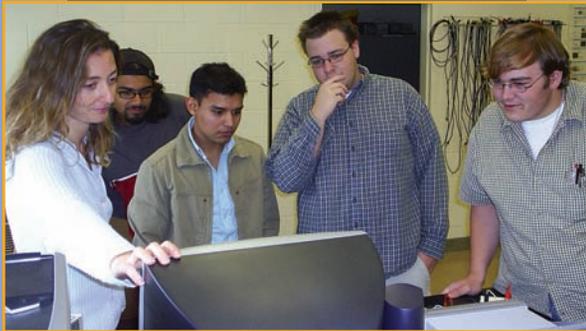
School of Engineering

THE CATHOLIC UNIVERSITY OF AMERICA

Graduate Study in Electrical Engineering and Computer Science

There has never been a greater demand for electrical engineers and computer scientists. Our program prepares graduates not only for those rapidly evolving fields, but also for a world that requires critical thinking and dedication to lifelong learning.

The essence of electrical engineering and computer science is creative design, particularly to solve problems of national or social interest. The graduate program prepares students for the Master in Electrical Engineering, M.E.E.; Master of Science in Computer Science, M.S.C.S.; and doctoral degree, Ph.D.



Areas of Concentration

The department offers innovative research programs in the following focus areas:

- Bioinformatics and intelligent information systems
- Distributed and real-time systems
- High speed communications and networking
- Information security
- Micro-optics and bio-imaging
- Signal and image processing
- Antennas and electromagnetic propagation

In line with current and emerging technologies in those areas, we have formulated up-to-date courses. We also offer a limited number of teaching and research assistantships to high caliber students. To accommodate working professionals, all graduate classes are offered after 5 p.m.

Research Laboratory Facilities

The department maintains modern laboratory facilities closely aligned with research and teaching at the graduate level. These laboratories include:

- Multimedia Security Research Laboratory
- Signal and Image Processing Laboratory
- Applied Electromagnetics and Optics Laboratory
- Telecom and Information Networking Laboratory
- Computational Bioinformatics and Bioimaging Laboratory
- Real-Time Systems Laboratory
- Laser Micro-Fabrication Laboratory

Research projects conducted in these laboratories have received funding from various sources, including the National Science Foundation, the National Institutes of Health, the Naval Surface Warfare Center, Naval Research Labs, and others.



The CUA Experience

Founded more than a century ago as the national university of the Catholic Church in the United States, CUA is noted for its rich Christian tradition that emphasizes high ideals, a balanced life and intellectual development. Students are the highest priority at this research-oriented university located in the nation's capital. The university offers more than 100 campus organizations ranging from sports teams to pre-professional groups. Students from all religious backgrounds are welcome.



Campus and City Life

CUA's 193-acre campus combines the best of both campus and city living. Student life is dynamic in a city famous for museums, theaters, historic landmarks, monuments and concert halls. Most attractions are minutes away by Metrorail, Washington's extensive commuter rail system, which has a station (Brookland/CUA) a few steps away from the engineering school at Pangborn Hall.

CUA's extensive athletic program includes women's and men's basketball, track and field, tennis, cross country, soccer, lacrosse and swimming, along with men's football and baseball, and women's softball, field hockey and volleyball. The Raymond A. DuFour (athletic) Center offers an assortment of opportunities open to all students. The Eugene I. Kane Student Health and Fitness Center offers personalized fitness plans and opportunities for yoga, Pilates, cardio vascular exercise and weight training.

