Department of Electrical and Computer Engineering
University of Maryland
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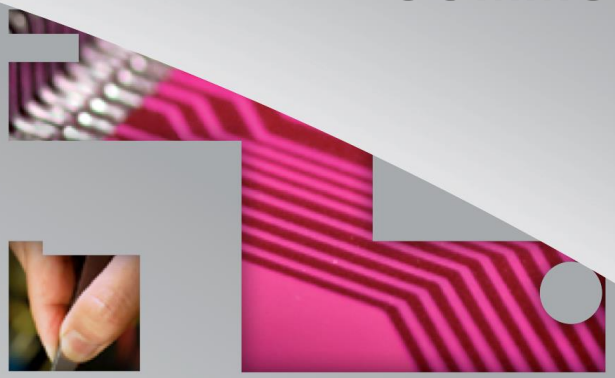
Joseph JaJa

MERGING LEARNING AND INNOVATION TO SERVE THE NEEDS OF THE STATE, THE NATION, AND THE GLOBAL COMMUNITY



UNIVERSITY OF MARYLAND 1856

A. JAMES CLARK SCHOOL OF ENGINEERING

Next Year Plans

- Improved Business Model Based on the experience for moving all the operations to online mode.
- Major enhancement of the undergraduate programs.
- Strengthening our faculty ranks in the areas of quantum, machine learning, cybersecurity, and AI/robotics.
- Enhancing research portfolio and continue to build capacity and partnerships for the QTC.

Improved Business Model

Teaching and Learning

- Hybrid model using the best of in-person and online teaching
- Different types of courses – shorter modules, year around?
- Student support and advising

Research

- Hybrid professional conferences and meetings that allow remote participation
- Online seminars by distinguished speakers
- Online recruiting and interviews

Educational Programs

Improved EE Curriculum Requirements

- More flexibility and elective courses in emerging areas
- Track oriented

Enhanced Senior Level Courses in Computer Engineering

Improved infrastructure for the Embedded Systems and IoT Program.

Enhance collaborative efforts for the Academy of Machine Learning

Enhancing Faculty Ranks

Hiring priority areas:

- Machine Learning Algorithms and Applications
- Quantum Information Processing and Technology
- Internet of Things (IoT) – scalable, secure, and resilient infrastructure.
- Cybersecurity joined with MC2
- AI and Robotics

Enhancing the Department Research Portfolio

- Enhance collaborative efforts with industry and government labs
- Enhance research infrastructure and support, including the establishment of unique testbeds
- Promote collaborations among faculty across the campus
- Better and broader messaging of significant research contributions by our faculty