STRATEGIC DIRECTIONS
Preparing the Engineer of the Future

CURRICULAR INITIATIVES

• Sustainability: Provide a focus on sustainability throughout the curriculum
• Entrepreneurial Experience: Provide opportunities for innovation and product development
• Power & Energy: Provide expertise in designing the next generation intelligent power systems, from milliwatts to megawatts
• Systems on a Chip: Train future engineers in cutting-edge SoC design techniques
• Embedded Computing: Enable seamless interfaces between humans and machines to meet the future of ubiquitous computing

LEARNING ENVIRONMENTS

• Enhance Integrative Learning Environments: Next steps in EE’s system- and board-on-a-chip education include automated test systems for characterization of custom integrated circuit and field-programmable gate array designs.
• Mobile Computing & Communications: Implement data-intensive wireless systems
• Advanced Power Laboratory: Provide sustainable energy generation, microgrids, smart metering and other upgrades
• Invest in updated communication system hardware, a mobile app/hardware development center, computer-aided design tools and new test and measurement equipment.
• Embedded Computing: Lab investments will provide opportunities for students to develop embedded computing applications for growth markets, including intelligent systems, cybersecurity, Internet of Things, biomedical and other emerging challenges.

PARTNERSHIPS

• Global Engineering Communities: Build international collaborations