

The time is now.
 RESEARCH Expenditures are rising!
 The OPPORTUNITIES are expanding!
 The number of WOMEN in ECE is increasing!



Electrical and computer engineers work at scales ranging from nanodevices interfacing to individual neurons in the brain to worldwide networks of billions of users on the internet.

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WECE

IEEE

HKN

ACE

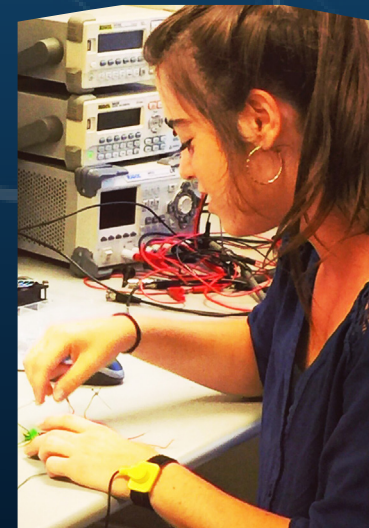
STUDENT GROUPS

**ECE
 AMBASSADORS**

ECE is everywhere!
 There is something
 for everyone!

ECE FLORIDA

We have something for everyone!
 If you want to change the world...
 Electrical and Computer Engineering has
 what you need for the rest of your life!



You can change the world every day.
 Cybersecurity, Robotics, Communications,
 Smart Energy & Power, Biomedical & Neuro-
 engineering, Internet of Things,
 Cloud Computing & more!

**HERBERT WERTHEIM
 COLLEGE of ENGINEERING**

What Electrical & Computer Engineers do...

Electrical and computer engineers BUILD and PROGRAM the computers that run the world. They CREATE all kinds of HIGH-TECH gadgets including cell-phones, tablets and video games. However, the reach of electrical and computer engineering extends even further, encompassing the DIVERSE fields of computers, signal processing, controls, communications, electronics, devices, power and electromagnetics.

Smart Energy



Smart grids need enough computer intelligence to control the grid better and make it more autonomous. You will engage in stimulating research on State Estimation, Power System Protection, Control and Dynamics for real-life applications. Learn to develop algorithms to detect, identify and correct gross errors on measurements, parameters and topology of power systems.

CYBERSECURITY



Intrusions and attacks compromise everything from personal identities to national security, from ATMs to financial markets. Learn how to anticipate cyber threats & to reduce vulnerabilities. We design robust cyber infrastructure to counter cyber threats, and educate the public on how they can protect themselves.

AUTOMOBILES

Today's automobiles are becoming more electrical than mechanical, including up to 100 microprocessors, smart sensors, controls, electronics, and battery systems. You are invited to work on the department's electric Miata convertible.



SIGNAL PROCESSING

POWER CONTROLS

ELECTRONICS

COMMUNICATIONS

Robotics



Study & develop intelligent autonomous robots, conduct research in the theory & realization of machine intelligence requiring topics such as machine learning, real-time computer vision, statistical modeling, and robot kinematics. Applications include autonomous air, underwater and above water vehicles.



Neuroengineering: Brain-Machine Interfacing

Are you interested in understanding interfacing and manipulating the nervous system? We are exploring how neurons communicate with one another and use quantitative techniques to analyze the nature of these communications.