**Vision**

The Department of Electrical and Computer Engineering will provide programs of the highest quality to produce world class engineers who can address challenges of the millennium.

**Mission**

The Department of Electrical & Computer Engineering will:

- Dedicate itself to providing its students with the skills, knowledge and attitudes that will allow its graduates to succeed as engineers and leaders.
- Maintain a vital, state-of-the art research enterprise, which provides its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
- Prepare its graduates for life-long learning to meet intellectual, ethical and career challenges.
- Recognize and act upon the special mandate to make high quality engineering education available to the residents of El Paso and the surrounding region.

**Programs**

The Department of Electrical and Computer Engineering offers a PhD degree in Electrical and Computer Engineering, Master of Science degrees in Electrical Engineering and in Computer Engineering, and a Graduate Certificate in Electric Power and Energy Systems. The Department of Electrical and Computer Engineering also offers a Bachelor of Science in Electrical Engineering, and a Minor in Electrical Engineering for non-majors.

**Master of Science**

- M.S. in Computer Engineering (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/computer-engineering-ms/)
- M.S. in Electrical Engineering (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/electrical-engineering-ms/)

**Doctor of Philosophy**

- Ph.D. in Electrical and Computer Engineering (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/electrical-computer-engineering-phd/)

**Certificate**

- Graduate Certificate in Electric Power and Energy Systems (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/electric-power-energy-systems-graduate-certificate/)

**Professor**

Benjamin Flores (http://facultyprofile.utep.edu/default.aspx?ID=bflores/)
- Contact Information: bflores@utep.edu (mtcortez@utep.edu); 915-747-6961
- Education: BS, UTEP; MS, UTEP; Ph D, Arizona State University
- Research Interests: Radar Signal Processing, STEM student success, mentoring

Anupama Kaul (http://facultyprofile.utep.edu/default.aspx?ID=akaul/)
- Contact Information: acaul@utep.edu (mtcortez@utep.edu); 915-747-6003
- Education: BS, Oregon State University; BS, Oregon State University; MS, University of California, Berkeley; Ph D, University of California, Berkeley

Theresa Maldonado (http://facultyprofile.utep.edu/default.aspx?ID=tamaldonado/)
- Contact Information: tamaldonado@utep.edu (mtcortez@utep.edu);
- Education: Ph D, Georgia Institute of Technology

Patricia Nava (http://facultyprofile.utep.edu/default.aspx?ID=pnava/)
- Contact Information: pnava@utep.edu (mtcortez@utep.edu); 915-747-5994
Education: BSEE, New Mexico State University; MSEE, New Mexico State University; Ph D, New Mexico State University

Contact Information: hnazeran@utep.edu (mtcortez@utep.edu); 915-747-8937
Education: BS, University of Texas at Austin; MS, Case Western Reserve University; Ph D, University of Texas (Southwestern Medical Center at Dallas) & UT Arlington

Contact Information: wqian@utep.edu (mtcortez@utep.edu); 915-747-8090
Education: Post Doctoral Research Associate, University of Notre Dame; Post Doctoral Research Associate, University of South Florida College of Medicine; Ph D, Southeast University

Contact Information: sriter@utep.edu (mtcortez@utep.edu); 915-747-7890
Education: BA, Rice University; BS, Rice University; MS, University of Houston; Ph D, University of Houston

Contact Information: rcrumpf@utep.edu (mtcortez@utep.edu); 915-747-6958
Education: BS, Florida Institute of Technology; MS, Florida Institute of Technology; Ph D, University of Central Florida
Research Interests: 3D printing, electromagnetics, metamaterials, antennas, nanophotonics, high power microwave devices, computational electromagnetics

Contact Information: mvelezreyes@utep.edu (mtcortez@utep.edu); 915-747-5534
Education: BS, University of Puerto Rico at Mayaguez; MS, Massachusetts Institute of Technology; Ph D, Massachusetts Institute of Technology
Research Interests: Signal and sensor analytics, Information extraction from dynamic systems using remote or minimally intrusive sensing, Hyperspectral remote sensing, Geospatial analytics, Data-driven science and engineering.

Contact Information: dzubia@utep.edu (mtcortez@utep.edu); 915-747-6970
Education: BS, University of Texas at El Paso; MS, University of Texas at El Paso; Ph D, University of New Mexico

Associate Professor

Contact Information: sergioc@utep.edu (mtcortez@utep.edu); 915-747-6968
Education: BS, Massachusetts Institute of Technology; MS, University of Arizona; Ph D, Rice University
Research Interests: Digital Signal Processing, Image Processing, Image Compression, Compressive Sensing, Volumetric Data Compression, 3D image processing, Biomedical Signal Processing

Contact Information: pmandal@utep.edu (mtcortez@utep.edu); 915-747-8653
Education: MS, Asian Institute of Technology; Ph D, University of the Ryukyus
Research Interests: Smart grid technologies, Microgrid energy management system, Power system operations, Energy Forecasting, data analytics, and uncertainty modeling, Distributed generation and renewable integration to power grid, ML and AI applications in power systems, Energy security, reliability, and resiliency.

Contact Information: mpmcgarry@utep.edu (mtcortez@utep.edu); 915-747-6955
Education: BS, Polytechnic University; MS, Arizona State University; Ph D, Arizona State University
Research Interests: Dr. McGarry’s area of research interest is communication networks. His specific interests are in applying data analytics to automate the management of communication networks. His past research work in passive optical networks has been disseminated in the world’s leading communications journals (e.g., IEEE Transaction on Communications, IEEE Journal on Selected Areas in Communications, IEEE/OSA Journal of Lightwave Technology) and has received over 1400 citations from the community.

Contact Information: jmoya@utep.edu (mtcortez@utep.edu); 915-747-6972
Education: BS, New Mexico State University; MS, New Mexico State University; Ph D, The University of New Mexico

Contact Information: stellaq@utep.edu (mtcortez@utep.edu); 915-747-6939
Education: BS, The University of Texas at El Paso; MS, The University of Texas at El Paso; Ph D, The University of Texas at El Paso
Research Interests: Biomedical sensor design for non-invasive glucose monitoring, electron beam melting of titanium, planar and selective electroless nickel plating of polymer rapid prototype substrates, and the selective deposition of CdTe on micron- and nano-scale patterned substrates for X-ray imaging applications.

Thompson Sarkodie-Gyan (http://facultyprofile.utep.edu/default.aspx?ID=tsarkodi/)
Contact Information: tsarkodi@utep.edu (mtcortez@utep.edu); 915-747-7011
Education: ScD, Technische Universitatet Berlin
Research Interests: measurements, instrumentation, control, computer vision and pattern recognition, neurotechnology, soft computing.

Bryan Usevitch (http://facultyprofile.utep.edu/default.aspx?ID=usevitch/)
Contact Information: usevitch@utep.edu (mtcortez@utep.edu); 915-747-6964
Education: BS, Brigham Young University; MS, University of Illinois, Urbana; Ph D, University of Illinois

Assistant Professor
Deidra Hodges (http://facultyprofile.utep.edu/default.aspx?ID=drhodges/)
Contact Information: drhodges@utep.edu (mtcortez@utep.edu); 915-747-7950
Education: Ph D, University of South Florida

Robert Roberts (http://facultyprofile.utep.edu/default.aspx?ID=rcroberts/)
Contact Information: rcroberts@utep.edu (mtcortez@utep.edu); 915-747-6959
Education: BS, Case Western Reserve University; MS, Case Western Reserve University; Ph D, Case Western Reserve University

Ricardo von Borries (http://facultyprofile.utep.edu/default.aspx?ID=rvonborries/)
Contact Information: rvonborries@utep.edu (mtcortez@utep.edu); 915-747-7959
Education: BS, Universidade de Brasilia; MS, Universidade Federal do Rio de Janeiro; Ph D, Rice University
Research Interests: Digital signal processing with emphasis on wavelet transforms, Fourier transform, time-frequency analysis, compressive sensing, tomographic imaging, overcomplete signal expansions, and parameter estimation. Processing of one-dimensional or multidimensional signals, collected with dense sensor arrays and processed with computationally intensive algorithms running on computer clusters. The main applications of the research include tomography and source localization in biomedical and radar imaging. Other interests include digital and analog hardware architecture and design to create dedicated instrumentation that complements the infrastructure needed for the research.

Research Assistant Professor
Rodrigo Romero (http://facultyprofile.utep.edu/default.aspx?ID=raromero2/)
Contact Information: raromero2@utep.edu (mtcortez@utep.edu); 915-747-6090
Education: BS, Technology Institute of Chihuahua; MS, Technology Institute of Chihuahua; MS, The University of Texas at El Paso; Ph D, The University of Texas at El Paso

Clinical Associate Professor
Virgilio Gonzalez (http://facultyprofile.utep.edu/default.aspx?ID=vgonzalez3/)
Contact Information: vgonzalez3@utep.edu (mtcortez@utep.edu); 915-747-6622
Education: BS, Instituto Tecnologico y de Estudios Superiores de Monterrey, Campus Estado de Mexico; MS, Instituto Tecnologico y de Estudios Superiores de Monterrey, Campus Estado de Mexico; Ph D, University of Texas at El Paso