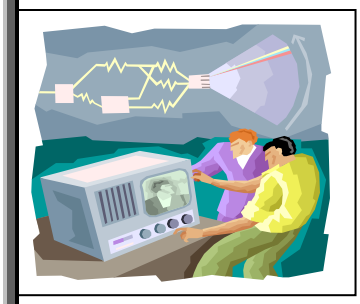


ELECTRICAL & COMPUTER ENGINEERING

C A R E E R P R O F I L E

Overview

Electrical Engineers design, construct, and maintain products, services, and systems and perform research to create new ideas in areas such as energy and power, circuits and electronics, optics, remote sensing, electromagnetics, communications, signal processing and control, and networking and computer systems. Electrical engineering is a rapidly evolving discipline based on the application of math, physics, and computation to address the needs of our networked information-age society.

Average Starting Salary (Bachelor's Degree): UIUC- $69,342 NACE- $63,700

Skills and Interests Important to Electrical/Computer Engineers

- Design, development, and implementation of products and services
- Technical and computer expertise
- Research and problem solving skills
- Written and oral communication skills

Sample Job Titles

- Flow Meter Marketing Engineer
- Design Engineer
- Development Engineer
- Project Engineer
- Quality Control Engineer
- Reliability Engineer
- Incubation Sourcing Engineer
- Software Engineer
- Systems Design Engineer
- Technology Analyst

Sample Companies Recruiting Electrical/Computer Engineers

- Apple
- Bombardier Transportation
- Boeing
- Capital One
- Cisco Systems
- General Electric
- Goldman Sachs
- IBM
- Intel
- John Deere
- Microsoft
- Qualcomm
- Raytheon
- Sargent & Lundy
- Siemens
- Texas Instruments

Getting Involved

Campus Organizations:

- American Society for Engineering Education (Illinois chapter), http://asee.ec.illinois.edu/
- Eta Kappa Nu Honor Society, https://sites.google.com/a/illinois.edu/hkn2011/
- Institute of Electrical and Electronics Engineers (Illinois chapter), http://ieee.illinois.edu/
- National Organization for Business and Engineering, http://www.nobenational.org/illinois/home.php

National Organizations:

- Tau Beta Pi – The Engineering Honor Society, http://www.tbp.org/home.cfm

ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Xiaohang "Nancy" Tran

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Education

University of Illinois, Department of Electrical and Computer Engineering Urbana/Champaign, IL
Bachelor of Science in Electrical Engineering May 2016
Concentration: Control Systems GPA: 3.68/4.00

Industry Experience

Romano Giannetti's Research Project June – August 2014
Research Assistant Madrid, Spain

- Built class A, B and AB trans-conductive amplifiers for voltage to current converter
- Analyzed amplifiers' stability using a Digital Phosphor Oscilloscope for non-linear inductive device
- Identified the conditions that lead to high frequency oscillations due to the ferrite-core coil

Motorola Inc. Schaumburg, IL
Electrical Engineering Co-Op January – June 2014

- Tested the performance of a router module in power amplifier which included electrical and mechanical testing
- Analyzed results of certification testing in a formal technical review document and presented it at the technical review meeting; compiled the certification package for the router module
- Performed Monte Carlo Analysis on In-Rush Current Limiter circuit to verify minimum output current
- Conducted over 10 tests that included voltage and current ripple measurements at different temperatures

General Electric Louisville, KY
Program Management Intern May – August 2013

- Coordinated and completed two new product introductions and four product cost take out programs on microwave products in collaboration with LG Electronics, Samsung, and Daewoo
- Implemented DFSS Six Sigma methodology in inspection of product lines involved in-sourcing ventures to confirm GE safety and reliability specifications were met
- Worked with the Project Manager to negotiate cost and product timelines with global suppliers

SAMPLE
ELECTRICAL
RESUME

Project Experience

Design-Build-Fly Competition Urbana, IL
Project Manager September 2014 – Present

- Developed and implemented critical engine power monitoring instrumentation and telemetry hardware and firmware using Atmel AVR microcontrollers which transmit in-flight data in real-time to ground computer
- Developed sound electrical design principles including analog, digital, mixed signal, and power management
- Coordinated activities of a 6 person team to meet deadlines, accurately report data, and promote communication

Skills

Computer Skills: C++, VHDL, Matlab, Simulink, LaTeX, AutoCAD, Autodesk Inventor, Microsoft Office
Platforms: Windows, Unix
Languages: English, Mandarin, Spanish

Activities & Honors

Illinois Leadership Center, UIUC
Leadership Certificate, December 2014
Facilitator, Ignite Program for Organizational Leadership, March 2014
Engineering Career Services, UIUC
Student Ambassador, Fall 2013 - Present
IEEE, UIUC, Fall 2012-Present