COMPUTER ENGINEERING UNDERGRADUATE PROGRAM (BS Degree)

Joint between Computer Science & Electrical Engineering Departments

- Covers some of hottest/most cutting edge areas in engineering, at overlap between CS + EE:
 - o **Computer architecture** = designing computers
 - Embedded systems = consumer electronics (cell phones, digital cameras,...), design both software + hardware
 - Parallel computing: programming/compilers/application/processor architecture
 - VLSI circuits
 - Designing complex digital systems
 - Computer-aided design (CAD) = optimization algorithms/software tools
 - Networking: Internet, wireless communication, sensor networks
- Students learn both hardware + software design
- Follow-on MS degree program also offered
- Graduating students:
 - well-positioned for jobs in industry: microelectronics, CAD, software, ...
 - graduate school: can go on to either CS or EE (or computer engineering)

FORBES.com: Computer Engineering = "Most Lucrative College Major"

URL: http://www.forbes.com/2008/06/18/college-majors-lucrative-lead-cx_kb_0618majors.html

Faculty contacts:

Prof. Charles Zukowski (acting chair), caz@columbia.edu

Prof. Steven Nowick (chair, on sabbatical '13-'14), nowick@cs.columbia.edu

Administrative contact:

Elsa Sanchez, elsa@ee.columbia.edu