MEng Project Announcement

Project title: Wireless Communication in the Cloud

Brief Description of Design Project Goals:

Overview:

This project involves the construction of a radio driven by a PC to allow for automatic testing of transceiver designs for both courses and research. The project will specifically involve testing USRP radios, interfacing with them via PCs, exploring and documenting the various capabilities of the USRP radios, designing a working digital communication system over the radios, designing software to run on the PC that allows the system to be operated remotely over the Internet, and testing and documenting the overall system. The system will ultimately be used in ECE courses at Cornell and possibly at other universities.

ECE Field Advisors: Aaron Wagner and Christoph Studer

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Number of MEng Students Needed: 2

Required Skills: Python programming. Familiarity with radio hardware (say, via amateur radio experience and licensing) helpful. Must enroll ECE 4670 in Fall 2017 semester.

Estimated Project Time Frame: Fall 2017 + Spring 2018 semesters