Graduate Seminar – VI, Spring 2015

***ECE Department***

**Cloud Computing: OpenStack in the Classroom**

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OpenStack is an open source cloud operating system that aims to produce a platform that meets the needs of public and private clouds. It is the fastest growing open source project in the world with contributions from thousands of individuals representing hundreds of the world’s largest users of computing technologies. No matter what field of computing one might pick there are one or sometimes more relevant OpenStack projects. Interested in operating systems and virtualization, there’s Nova. Interested in networking, there’s Neutron and Nova-Networking. Interested in identity management, there’s Keystone, and the list goes on. It is an excellent teaching aid, and an exemplar system for illustrating a variety of concepts taught in a course on computing.

As a teaching aid therefore OpenStack provides an opportunity to illustrate concepts in computing with the same code that operates some of the world’s largest computing infrastructures. Students can also contribute code to the various projects and improve their own coding skills, and establish a name for themselves while they are studying.

Increasingly companies rely on a student’s online profile (at GitHub or other places) as the sole factor in hiring and participation could considerably improve the prospects for employment for students when they graduate. The presentation will provide an introduction and demonstration of OpenStack and show how easy it is to install and use as an exemplar system for study, and how one can get started as a contributor to OpenStack.

***Date*: Wednesday, April 29, 2015. *Time*: 3:30 PM *Room*: BL-214**