

## **An Eclipse Plugin for Interoperability with Sun SPOT Sensors**

**Speaker: Giacomo Ghidini, University of Bologna, Italy**

**Date: Friday, March 7, 2008**

**Time: 10:00-11:00 AM**

**Venue: Woolf Hall 413 (CReWMaN Lab)**

### **Abstract:**

During the last few years wireless sensor devices have improved in terms of the number of sensors/actuators integration, computational power and memory, among other features. Sun SPOT is one of the latest technology and it's having a great success also due to its Java-based programming paradigm. In this talk we will present our current work on Sun SPOT at the Mobile and Ubiquitous Group at CReWMaN. We will introduce Sun SPOT Eclipse Plugin, which enables almost seamless interoperation between any other Eclipse plugin and resources available on remote Sun SPOTs, thus relieving Sun SPOT-based wireless sensor network (WSN) applications of this task. Moreover, Sun SPOT Eclipse Plugin provides a framework for further research on WSNs and pervasive computing as it includes not only traditional sensors but also emulated sensors/actuators, channel/network monitoring tools and eventually emulated devices such as the Sun SPOT itself. In order to provide the audience with an insight of the system, Sun SPOT and the standards / technologies on which the Sun SPOT Eclipse Plugin relies, namely OSGi and Eclipse, will also be presented.

### **Biography:**

Giacomo Ghidini received his B.S. degree in CSE from University of Bologna, Italy, in 2004. He'll be graduating from his M.S. in CSE at University of Bologna, Italy, this March and has been working on his master's thesis at CReWMaN at UTA for the last 6 months. His research interests include pervasive computing, wireless sensor networks and software engineering.