



## **Title: goSmart Home Automation Software**

**Name:** Fares Qeadan, Senior - Jim Motta, Senior - Siraj Malik, Senior  
(photo: Fares Qeadan)

**Mentors:** Sergiu Dascalu, PhD, Professor - Fred Harris, PhD.,Professor

**Department:** College of Engineering, Computer Science & Engineering

### **Abstract:**

*Smarthomes* are homes that incorporate various types of technologies into their design. One such technology is called X10. X10 technology gives users the ability to control electrical devices via the electrical wiring in a house. Currently there are no X10 based software products that give users the flexibility needed to easily maintain their devices. Our project I focuses on designing and creating an X10 interface that will allow users to wirelessly control devices as well as offering several dynamic features. These features are intended to enhance the ease of use of a home automation system in the form of scheduling, device customization, zone assignment, and notification. In addition, goSmart will also provide a multi-user environment which is unique to current software on the market. The novelty of the goSmart solution is placed on its system design and integration of multiple aspects that most other related software do not have. This will be accomplished using the X10 Firecracker wireless module. Moreover, the software will be designed in order to support easy integration of additional components in future revisions. This will add to market life as well as lending to easy development for the software. Project goSmart will simplify lifestyle and contribute in fulfilling the growing interest in Smarthomes. Going wireless and controlling devices within a house using the home computer will provide a sense of security and ease of home management.