1. Project title: RF based occupancy detector

2. Names of team members (maximum 2): Shreyans shah and Aditya Trivedi

3. Project description:

a. Describe in details the central problem that you are trying solve in the

project?

b. Why is the problem important? What are its applications?

c. Describe your approach. How will you solve the problem?

4. Novelty/originality

a. Are you implementing a technique/idea already proposed in literature? If so, list the research papers/articles. Also, clearly explain what is going to be your contribution in terms of implementation.

b. If this is a novel idea/technique, list at least 3 relevant papers, and

explain how your technique is novel compared to them.

5. Implementation plan

a. List all software tools and hardware components that you will use.

1) 802.11n measurement and experimentation platform

2) Intel Wi-Fi Wireless Link 5300 802.11n MIMO radios uses a custom modified firmware

3) Open source Linux wireless drivers

b. Explain how will you implement/simulate/integrate the system.

6. Evaluation plan

a. Briefly describe how you plan to demonstrate the system at the end.

<http://www.halper.in/pubs/halperin_csitool.pdf>