

**ECE Capstone program
Spring 2018
Project Abstract & Info**

Please provide the following information to be shared with on capstone information exchange platform:

1. Project number:

S18-66

2. Project title (as will appear on the poster):

Sound Tracking Camera Network

3. Team members:

Jiaming Tan, Yunhao Shi, Simrat Kochhar, Lingyu Li

4. Adviser(s) name(s):

Yingying (Jennifer) Chen

5. Up to 5 keywords that will help to classify the project scope:

Sound tracking

Network

Security

Hands free

6. Project abstract (up to 250 words) to be shared with judges:

Traditional security systems rely on cameras or other visual aids to monitor a secure area. These system can be circumvented by spray painting over the cameras to prevent system monitors from viewing what is going on in the area. One may overcome this with smaller spy cameras however, this project explores the use of sound to monitor and track a person in a given environment.

This system will use at least three microphones to monitor an environment and analyze their input and display the location of a person in said environment on an output screen.