

**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:

27

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

PassMon

3. Team members:

Shivani Patel

Akanksha Pathak

Srujana Sure

Lauren Williams

4. Adviser(s) name(s):

Hana Godrich

Janne Lindqvist

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

RFID

Database

Monitor

Arduino

Web Application

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

Most hospitals do not have the proper means of security in place to ensure that visitors to the hospital stay within designated boundaries. This not only includes accessing restricted hospital areas but is also limited to the patient who they are registered to visit. This project would use RFID (Radio Frequency Identification) technology in a wearable form to keep track of visitors to the hospital, rather than the currently used paper ID system that can easily be compromised. The system would be backed by a database within which each visitor's visit history would be documented and associated with a unique ID. The purpose of this project is to minimize the current threat that is posed to immobile patients (confined to rooms within maternity and ICU wards) who do not have control over who can enter their room. If an unauthorized visitor enters a specific area of the hospital, an alert would be sent to the administrator or security as means to protect the patients.