Location aware notification system, using Arduino and a smartphone

# Purpose

The purpose of the project is to create a notification system, which will track an Arduino boards position using GPS. The Arduino board has to notify an administrator, using an application on a smartphone, if said board moves out of a pre-defined area.

# Functional demands

## Absolute minimum requirements

* Drawing of acceptable area on a map, using a browser and google maps API
* Export of coordinates from said area.
* Notification by LED on Arduino board whenever it is outside said Area.

## Acceptable minimum requirements

* Notification must be sent using GPRS or other wireless signal, to a smartphone.
* Arduino board must be traceable using and APP on a smartphone, AFTER notification has been sent.

## Extensions

* User account control for the drawing of acceptable area
* Arduino board should be able to fetch new acceptable areas upon initialization over the air
* Extended user interface

# Time Schedule

* Deadline 5/3 – Absolute minimum
* Deadline 9/4 – Acceptable minimum
* Deadline 7/5 – Report + possible extensions