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

* Drawing of complex editable area.
* Tracking of the Arduino via Bluetooth if outside of said area.

## Extensions

* Device / User specific area control
* Notification via gprs or other wireless signal to a smartphone when device is outside area
* Device can fetch acceptable area “over the air”

# Time Schedule

* Deadline 5/3 – Absolute minimum
* Deadline 9/4 – Acceptable minimum
* Deadline 7/5 – Extensions
* Deadline 26/6 - Report