Position:
Building Automation system using IoT and Arduino

Internet of Things (IoT) became the hottest research topic in the field of electronics and computer science. New upcoming technological infrastructures are currently being redesigned in order to handle real time communication between billions of devices, storing their big data, analyzing and using the data to manipulate the future smart environments. Consequently, new services and technologies will emerge, and help in making life easier. The aim of this proposal goes in-line with the hottest research topics enabling IoT vision, while proposing new advances that make IoT technology more robust, less expensive, less power hungry, sustainable and the most important, applicable in the close future.

The foreseen tasks of the position are the following:

The goal is to develop an IoT system for smart building applications using sensors, Arduino, and IoT cloud platforms. As a consequence, a set of new robust prototypes tested in real environments that can help in accomplishing such vision will be provided.

Remotely controlling the electrical appliances in large buildings, Intrusion detection, Gas leakage detection, Control speed of fan automatically according to the temperature, Switch lights on/off automatically by detecting the presence of a person in the room.

Characteristics of the candidate:

- Strong interest in Arduino technology;
- Proven programming skills;
- An excellent background in one of the relevant research areas (e.g., distributed systems, network or system security, database, network programming);
- Good written and spoken communication skills in English are required

We offer:

- Work in a team.
- Improving your knowledge of Arduino and IoT technology.

Timespan:

- Hiring process: November-December 2018

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