



## COMPANY PROFILE

InlineMarket is a digital marketing agency providing unique marketing automation solutions for managing and utilizing data in the most profitable way. InlineMarket office is located in Helsinki downtown. Our team consist of multi-talented software developers, top-notch Big Data analysts and experienced project management professionals. See more information about the company on our website <http://inlinemarket.fi/>

## PROJECT DESCRIPTION

SATULAAN is a bike sharing hardware and software solution with access control and bike reservation system, targeted for short trips and daily commute. It aims to support eco-friendly 'last-mile' transportation within metropolitan area. The service benefits from using smartphone application for user authentication, location tracking and access codes provisioning. Use cases for the project include but not limited to enterprise bike sharing system, on-campus bikes, peer-bike sharing.

## PROJECT CONTACTS

Project owner: Niko Päivärinta niko.paivarinta@inlinemarket.fi

Project manager: Alessya Gorelova alessya.gorelova@inlinemarket.fi

## CURRENTLY WORKING ITERATION



## **PROJECT REQUIREMENTS**

CURRENT DESIGN PROBLEM: bulky lock box solution, physical key entry

SATULAAN project objective is to develop pilot-ready next generation of smart bike lock solution including hardware, firmware and software deliveries. Example competitor solutions <https://bitlock.co/>, <http://linkalock.com/>, <https://www.kickstarter.com/projects/2084861579/airdonkey-join-the-bike-sharing-revolution>. Scope is to have production-ready lock prototype, opening wirelessly or with a digit lock. Battery life target is 10 months. Other requirements: durable and robust design, stable native iOS mobile application, keyless Bluetooth based lock.

### Mobile application development (1-2 IT students)

Scope: iOS mobile application (front-end/back-end). Improve current application and make it more stable. Add subscription service, profile management, support for wireless lock, and make AppStore ready.

Skillset: mobile application development, iOS development experience, Swift or JavaScript

### Hardware development – lock electronics (1-2 Engineering students)

Program and manufacture circuit board, develop electronics for the solution, project description documentation for the solution

### Box/lock (1-2 Engineering students)

CAD design and 3D prototyping of the lock, producing supporting project documentation and solution schemas

## **PROJECT TIMELINE AND OTHER**

Detailed Project requirements will be shared on project kick-off meeting.

SCRUM is utilized as company solution development model. InlineMarket's existing Issue management and continuous integration (CI) tools are utilized for platform implementation and deployment. Automation and front end testing is going to be used for quality assurance. Project language is English.

Project is expected to last 8 weeks. By the end of the period pilot ready solution will have to be presented to the project management group. Project bonus may be expected in case of successful outcome, specifically 5 bikes ready for pilot run by end of 8 weeks period.

InlineMarket provides working space, project coordination, requirements, and necessary hardware components.

Metropolia campus labs are to be used when necessary during the project.