Real-time fintess monitor. A project proposal

Mohannad Banayosi

April 14, 2013

Abstract

IMPACT is a multidisciplinary project in which students of computer science (more precisely: software engineering), material sciences, mechatronics and embedded system design come together to create Thai-boxing pads with builtin impact sensors and wireless connection to a base station. In this project, we will implement a multi-sensor tracking and analysis tool for a physical workout routine specific to Thai/kick-boxing or similar contact sports to track and display performance and fitness level of a practitioner over a single and over multiple sessions. It will be used to record and correlate the inputs from impact sensors and technique recognition and track improvemets of practitioners over time.

1 Introduction

* A small introduction here.*

1.1 Problem

* The problem I am trying to solve *

1.2 Aim of this project

* How will I solve the problem *

2 Technologies and frameworks

Few words here

2.1 Not used

Few words here

2.1.1 Technology 1

Advantages
Disadvantages
Why I didn't use it

2.1.2 Technology 2

Advantages
Disadvantages
Why I didn't use it

2.2 Used

Few words here

2.2.1 Technology 1

Advantages
Disadvantages
Why I will use it

2.2.2 Technology 2

Advantages
Disadvantages
Why I will use it

3 Interface's Architecture

Few words here describing the interface and what it does
    * Architecture Image *

3.1 Interpreter

* Interpreter's description *

3.1.1 Interface modules

Few words here

3.2 Statistics module

* module's description *

3.2.1 Statistics engines

Few words here

3.3 Monitor

Few words here

3.3.1 Monitoring modules

Few words here