

## Project Title

Smart Fashion

### Project Description:

There are various methods to track people's movements; Ex GPS, camera, accelerometer, etc. By using keyboards, to simulate touch sensors assumed to be attached to clothes, each student will be able to upgrade a fashion object to make it smart using his/her programming skills.

The written software should get input from different wears and integrate them in a cloud of different objects to count/ draw different moves.

The need for tracking human body movement exists for several reasons. One is for coaching proper movement and gestures. Assuming limited forms of moves when practicing Islamic prayer or sports activities, there exists yoga mats and prayer mats that tracks people movants. Additionally, there exists codes to track movements using image processing. Still there is limited products to track posture for example using touch sensors. Artistic animated drawing is not the target of this project. We aim to produce synchronized iconic images of pressure points.

### Duties/Activities:

Each student will have to go through the following steps

<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>
-Write Input Output Commands. -Run the command. -Graphical output. - Analyses of pressure points. - Drawing: Submit results in a monochrome image.	Coding: Image output of pressure points. Test the program for every point.	Write command for video production of pressure points.
<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>
Integrate results with other outfits.	Application of result.	Writing PowerPoint Presentation

### Required Skills:

Action learning.

Application of scientific methods.

Program and debug projects. Input / Output commands. Boolean operations. C++, c#.

Use of application development software; for example visual studio.

Writing and presentation skills is a plus.

**Preferred Intern Academic Level:**

Under graduate/ Graduate

Students should have passed at least one university course in programming.

**Learning Opportunities:**

Increase existing skills.

**Expected Team Size:** *2 to 20*

**Mentors**

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