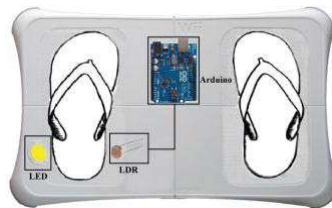
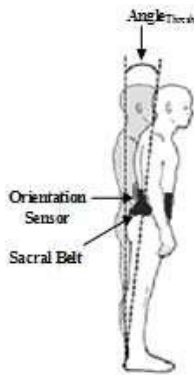


About

VBaT is a Virtual Reality based Balance Training platform. This comprises a balance board that is wirelessly connected with a Virtual Reality (VR) based exergaming platform. The body weight shifting exercise (in which one moves his/her body in different directions while keeping the feet on the balance board at one position) is often clinically recommended to individuals with balance disorders. For someone standing on the balance board and shifting weight, the Center of Pressure (CoP) shifts that in turn changes the location of virtual objects projected on a VR-based interface. Based on one's balance capability, the VBaT platform offers varying task challenges thereby helping the user to practice weight-shifting tasks and improve balance.



Status

Studies have been conducted using VBaT in Lab-based, community-based and hospital-based settings. The results are promising.

Comparative Statement

Features	Competing brand 1	Competing brand 2	Competing brand 3	Competing brand 4	VBaT
Center of Pressure (CoP) Measurement	Yes	Yes	Yes	Yes	Yes
Virtual Reality based Interface	Yes	No	No	Yes	Yes
Task adaptive to individualized balance	No	No	No	No	Yes
Tasks of varying challenges being offered	No	No	No	No	Yes
Wireless connectivity between balance board and Virtual Reality based interface	No	Yes	No	Yes	Yes

Additionally, there are a number of balance platforms. However, none of them offer an individualized and adaptive balance training.

Potential Applications (Customers)

- (i) Sports (Gyms);
- (ii) Balance Rehabilitation;
- (iii) Elderly Care, etc.