Application control using Gesture

Automation is the most frequently spelled term in the field of electronics. The hunger for automation brought many revolutions in the existing technologies. The application is controlled by some input device which is generally connected with wires. It restricts the motion of user such as during presentations. To giving freedom to user to move while using the application the wireless technology is developed. Gesture based systems provide the natural movement of hands or faces to control the application (hardware or software). Our aim in this project is first to control the computer application via gesture using Bluetooth technology. Secondly we can control hardware such as motors by gesture using the interface devices. LabVIEW application will be developed of receiving the signal and identify the gesture, take decision based on gesture. Secondly, project will make use of a micro controller, which is programmed, with the help of embedded C instructions. This microcontroller is capable of communicating with transmitter and receiver modules. The accelerometer sensor based sensor detects the tilt and provides the information to the microcontroller (on board computer) and the controller judges whether the instruction is right movement or left movement instruction and controls the direction respectively. The controller is interfaced with two dc motors to control the direction of the locomotive.