**Andrew Daly (DT211/4): Heart Health**

Medical doctors and General Practitioners are highly respected by many people for their medical advice and diagnosis of illness. Becoming a doctor and helping people through illness has become a safe career choice for people with skill and nerve for the job. However, due to ever-changing and evolving technology is it possible that someday doctors may be obsolete? A lot of technology has been created in recent years that have made some professions obsolete due to the fact that a machine or some software can do it. Due to internet people now have the ability to get diagnosed by a doctor from their own home without even the need for the doctor to visit.

One type disease very common with many people is Heart disease. There are many types of Heart disease and to recover from such requires a lot of exercise and doctor appointments/check-ups.

Heart Health is home-based rehabilitation system for patients in rehabilitation of cardio-vascular diseases with a user-friendly interface and also a doctor-patient interaction system for doctors/physiotherapists to diagnose and examine patients without face-to-face interaction. Heart Health utilizes the Kinect V2, patients must perform exercises in front of the Kinect and results are sent straight to the patient's Doctor/Physiotherapist. Heart Health also utilizes serious games as a means to maintain motivation for people undergoing therapy and engaging for this type of physical rehabilitation. Heart Health also uses heart rate estimation to determine the patient’s heart rate through exercise.