# INTRODUCTION

The revolution of the Internet changed the future of communication forever. As time went by, new technologies were developed which allowed us to move from the First Generation of the Internet to the Fourth Generation. In the 1970’s the First Generation of Internet began through APRAnet (Advanced Research Projects Agency Network). In the 1990’s the Second Generation of Internet was accompanied by AOL. In the 2000’s, the third generation began and we are still in it today. This generation is dominated by social media’s, such as Facebook, Twitter, MySpace, Flickr, etc. The society is now in the process of transitioning from the Third to Fourth Generation. The Fourth generation of Internet is represented by the Internet of Things (IoT). [1]

IoT is a new concept that involves the networking of all physical devices to function more cohesively as one unit to assist in everyday life. It connects everything to the internet “Virtually”. IoT will have huge impact on businesses all over the world as well as average household. Advantages of Internet of Things are; increase in household security, increase in energy conservation and also an increase in business sales. [1] This project involves using sensors in order to develop an Internet of Things application using the Open Geospatial Consortium (OGC) standard.

OGC is an international consortium with more than 445 companies, research organizations, government agencies, and universities that participate in a consensus process to develop geospatial standards that are available publicly. The OGC Standards allow technology developers to make geospatial information and services useful with any application that needs to be geospatially enabled. [2] "The standards coming out of this OGC process will make it possible for developers to ensure that sensors, the observations they produce and the systems they inform will be easy to reach and control with Web services, without compromising security and data integrity,” said Sensor Web for IoT convener, Steve Liang, who is director of the GeoSensorWeb Laboratory at the University of Calgary. [2]

# References

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