Research Term Paper

**Privacy and Emerging Technology**

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**CS 306: Computers in Society**

**09/17/2020**

**Abstract**

Invention has been the mother of advancement for the past two-thousand years. Invention gave us the agricultural revolution, the bronze age, the industrial revolution, and as of late computers and robotics. However, as technologies emerged, ways to exploit that technology have been discovered. The first cases of this arose from things like the *Watergate scandal* and *Kyllo v. United States*. In these cases, technology has been used to spy and invade the privacy of others for either gain or to gather evidence. In this paper previous advancement and exploitation will be examined, as well as current issues in privacy, then an examination of cutting-edge technology and how it could be exploited. At the end of this paper, we will ponder how to protect our privacy using legal and technological methods, as well as what developers can do to protect everyone from invasions of privacy.

**Thesis:** Advancing technology has always been exploited to invade the privacy of everyday users, users must protect themselves through legal and technological means.

Outline

1. **History/Background**
   1. Kyllo v. United States
   2. Carpenter v. United States
   3. Watergate Scandal
2. **Current Issues**
   1. Drones as an Invasion
   2. Ad tracking through Social Media
   3. Security Cameras in China/U.K.
3. **Future Issues of Privacy**
   1. DNA Testing
   2. Self-Driving Cars
   3. Quantum Computers
4. **Methods of Protection**
   1. Legal Proactivity
   2. Awareness of Vulnerability
   3. Tools and methods of hiding oneself
5. **How to protect from a Software Developer stance**
   1. Using Wikileaks
   2. Limiting Trackers
   3. Minimizing Access to computer hardware

**Conclusion**: Humans are beings of sacrifice, with the ease of our lives that has been achieved through technology we are sacrificing our liberty to privacy. However, it is entirely up to us how much privacy we give away for these benefits. We must fight, tooth and nail, in the legal realm to defend ourselves against the government. We must take steps to secure our anonymity online whether it be against companies who sell information about you or people who might wish to stalk you. To quote Benjamin Franklin; “He who would trade liberty for some temporary security, deserves neither liberty nor security.”