

# Project Draft



**Draft Due:** March 4<sup>th</sup>, 2016



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## Objective of Paper

For my project I would like to research how the new chip technology in credit cards work. I will look into how much help this will have in credit card fraud and also whether fraud will still continue. In the past and also currently ongoing, there have been many instances where there has been fraud.

With credit card fraud, there has been a lot of money that has been stolen and this has cost companies a lot. Credit cards have been around for a very long time beginning very early on as merchant cards and then becoming credit cards around 1958.

As a novice in this area, there are many things that one may not be aware of such as different ways that someone can be a victim to credit card fraud and also ways that a person can prevent this from happening. Unfortunately, there will always be people that will try and get information and be fraudsters so one still has to learn that there are precautions that need to be taken.

With this topic I would like to see how well safety measures could be taken to prevent fraud and how new technology is helping. My assumptions are that there will always be a way around security but it would be more difficult to get through with advanced technology. I will measure how many frauds have happened before and after different security measures have been taken. With cases like this, you will either have a customer that is happy or not depending on if they have incurred a loss. In most cases, the customer never has a long-term loss, as it is the credit card institution that suffers the loss.

Throughout the research, I would like to convince the reader that there is always going to be fraud and precautions should always be made. Even though more technology is being presented, there are always people that are working against the new innovations.

## Client

In looking at credit card fraud, the client would be anyone that uses credit cards. It has become a way that everyone pays for everything from getting gas, to getting groceries, and a lot more. It can be very difficult today to find a person that does not accept cards or even a person that does not carry a card. Many places even use the credit cards as a proof of purchase and a way to track an item if there is any type of issues.

## **Content Advisor with summary of qualifications**

I would like to work with Dr. Murphy because I have taken several classes with her and have worked with her through many questions and issues that I have had. I have contacted her and she has agreed to work with me through this project. She has many qualifications in the security field and will be able to give me some good feedback and some ideas on what to look at in this type of field.

## **Project Plan**

For this project, I would like to spread out some of the research and work throughout the semester. There is a lot of information that is available and this will make it easier to collect data and analyze what I am trying to accomplish. For the continuation of the research project, I will need to set aside time each week and work on a portion of the project to get everything done.

I will begin by looking at instances where there have been compromises and then also look at other instances where there have been situations where an attack or compromise was breached and no losses happened. This will give a good idea on looking at what is effective and what is not effective in preventing fraud.

## **Resources**

For this research project, I will need to research and look at past incidents where there has been fraud and what measures were taken to either prevent it from happening again or what was done to fix the issue. With the addition of the chips in the credit cards, there is supposed to be better security, however this does not prevent people from trying to get into the system and compromising information.

I have looked at many research papers and have found a lot of information that I am working with and drawing up a conclusion based on the information. The chips that are in credit cards are new technology and are not being used completely and this is something that is still preventing security measures that it was designed for. This also creates for more time for hackers to work on ways to get through the new system.



## Project Details

The project will consist of looking at all the different types of credit card fraud and focus on the aspect of how well the new chips work and if they prevent fraud. There are many indications that show and talk about how the chip has not made a big difference. In many of the articles that I read, they talked about how there are always ways to hack in to systems and learn new ways to get into systems. This is something that is not going to change; however there are ways that one can make it a little more difficult. The chips that have been installed in credit cards are not entirely effective because most of the cards still have the same magnet and that is where there is vulnerability. In the future, they are going to have to work on ways that are more secure, although this may cause it to be more difficult to use online. There are always options such as PayPal to use online that has been verified.

I am still working on my research and looking at what exactly should be done to help with the situation of fraud. There is a lot of research and there are also very many instances where fraud has been successful and this is a way that can help with finding ways to improve the security.

## **Knowledge being applied**

I am not skilled enough yet in this field to do this type of research by myself, but there is a lot of research that others have done that I am able to use. I have taken classes that have given an overview of security breaches, but something like this is a lot more in depth. I will use my faculty mentor as a resource to get some more information and ideas of ways to improve my knowledge and research to come to a good conclusion.

## **Risk Factors**

In the field of breaches, there is a lot of information. There are always risks involved, but in the area of trying to get better security, you always look and learn from mistakes. Aspects that can make this project more difficult can be instances where there is new technology that does not have enough research and this would cause me to have a hypothesis that I am not able to prove. Overall I feel that I will be able to come to a conclusion that supports my hypothesis.

## **Work to be performed by others**

A lot of the research is work that has been performed by others. It is not possible for me to go out and test this for myself, as that would be too large of a project. I will be relying on others research and that will help me come to a conclusion that either supports or does not support my hypothesis.

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