Alec Austin

Meghana Gathpa

Joshua Hardy

Rachana Kandadi

Kalyani Padaraju

**Project Report 1**

**Project Description**

Cryptography is important for maintaining privacy when handling sensitive information. It’s typically handled by being coded either exclusively in software or exclusively in hardware. Our project seeks to join the software and hardware together. Some of the encryption will be done by the hardware, and some of the encryption will be done by the software.

The key issue with this is achieving communication between the hardware and software. Along with that, we must determine how to divide the algorithm between the hardware and software. The team will also need to get more familiar with FPGAs in general as well as with the FPGAs available for the team to use.

**Aims/Goals**

1. Determine which encryption algorithm will be used
2. Implement an encryption algorithm or find an implementation
3. Get familiarized with FPGAs
4. Select and configure FPGA
5. Determine how to communicate between hardware and software

**Deliverables**

* Project Report 2 - Feb 27
* Project Report 3 - Mar 19
* Project Report 4 - Apr 9
* Final Report - May 1

**Responsibilities**

Alec Austin - Do sections of survey paper; Do sections of presentation; Start looking up information on software/hardware communication; watch FPGA video

Meghana Gathpa - Do sections of survey paper; Do sections of presentation; Start looking up information on software/hardware communication; watch FPGA video

Joshua Hardy - Do sections of survey paper; Do sections of presentation; Start looking up information on software/hardware communication; watch FPGA video

Rachana Kandadi - Do sections of survey paper; Do sections of presentation; Start looking up information on software/hardware communication; watch FPGA video

Kalyani Padaraju - Do sections of survey paper; Do sections of presentation; Start looking up information on software/hardware communication; watch FPGA video