

1. Write a one-page paper on a topic listed below that contains the following:

- The distinct topic
- Summary of topic
- How the topic relates to Computer Science
- How it works (Technical details)
- How it relates to what you learned here

2. Each student is expected to prepare a 10 minute presentation in PDF format and present it in class on presentation days.

## Topics

### Cyber Security

- Source code analysis
- SQL Injection
- Privilege Escalation

### Computer Vision

- Face Detection
- Self Driving Cars

### Electronics

- Bluetooth
- Cell Phone Networks
- Wifi

### Networking

- BitTorrent
- DNS
- VOIP

### Web

- Web Server Technology (PHP)
- Social Networking
- Web 2.0 Sites (Twitter, Facebook, Youtube)
- Web Spiders
- Wikipedia

### Algorithms

- QuickSort
- BubbleSort
- Binary Search

### Gaming

- Old Cartridge Architectures (N64)
- Game Engines