Computer Graphics Homework 2

1. Curtis R. Priem.

2.\* RAM

3. Oculus VR Develop Kit 2 is a development tools package for creating applications/games that runs on Oculus Rift. In terms of software, it comes with Unreal development kit, Unity 4 and Unreal Engine 4 for virtual gaming development and graphics render. The optical display device provides 960x1080px per eye, a 100-degree field of view, refreshes at maximum of 75 Hz, and with OLED low persistence display aimed to reduce motion blur and shakiness. It also comes with internal tracking sensors (gyroscope, accelerometer and magnetometer) and positional tracking sensors for virtual environment simulation. Built-in latency tester allows accurate feedback of motion-to-photon latency for optimization.

5. Ray-tracing requires large amount of computation, which is too complex to achieve as OpenGL pipeline is based on rasterization of polygons.

6. i) Goldfish, pigeons, iguanas.

ii) Most genes responsible for cone coding/production reside on the X chromosome, therefore since the tetrochromat condition is caused by mutation in such genes, women are more likely to experience an extra type of cone.