Research Assessment 12

Date: February 7, 2019

Subject: Networking Fundamentals

APA Citation:

[Network Direction]. (2018, May 3). Cabling Devices | Network Fundamentals Part 2 [Video File]. Retrieved from https://youtu.be/Ud8UeNgdaz4

Assessment:

Although I had a mentor visit this week over the phone, I mainly just asked questions about the first video I watched over networking fundamentals, so instead of trying to write a mentor visit assessment that would basically mirror my research assessment from last week, I decided to continue watching the networking fundamentals videos that my mentor recommended and write a new research assessment over that. The overview of this week's video includes WiFi, cabling, ethernet, and network addressing as the main topics. As I go into this week's assessment, the same question that I had last week remains in my head: What is the relationship between cloud and networking on a deeper level, and how does this completely come under computer science and use code? I understand the basics of these questions as my mentor explained them, and as I searched them up, but I'm still kind of confused in certain areas.

Going into more depth about the video over cabling devices, it started off by talking about the two primary options for connections: wired and wireless. Wired cables, udes to physically connect two devices together, have been around for a long time, since the 1960s to be exact. Wireless technology has also been around for a long time, but WiFi, which is what most people usually think about, has been around mainly since the early 1990s. A wired Local Area Network (LAN), uses a protocol known as Ethernet to allow devices with different data and responding speeds to communicate with one another. For example, a workstation with 1 gigabit per second (Gbps) speed can send a message to a server with 10 Gbps with more ease, and without messing up the message. The next part of this video talks about Ethernet Standards, which I had no clue about prior to this video. This topic of standards is something very foreign to me and I still have to ask my mentor what it means by Ethernet Standards because the video or Google did not explain it to me properly. Next, the video goes into UTP cables, and talks about how there are many different categories, cat for short, in these cables. Finally, the video goes on to explain a bunch of different varieties in a wired network, and the roles of specific wires in a network.

To be honest, it was really hard for me to follow what was going on in the video because I had no prior education over cables in network, but at the same time it made some sense as to see how the wires are related in everyday processes. For example, the wires that are all connected in our school can communicate through each other to different computers, and these real world applications occurred to me constantly over the course of this video. I will probably

end up watching this video again to gain a better understanding of what was going on, but as for now, I learned something new, and I have a lot of new questions to ask my mentor as well.

Overall, this my research assessment for this week was more hardware rather than software, and learning about the physical attributes of computing before the software. I will mostly do a mentor visit assessment next week after I have answers to my questions over this video, and I look forward to discussing what I have learned today with my mentor. Speaking of, I will mostly use this research to create a page in the website I am creating for my Final Product over the cable and hardware aspect of computing.