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Date: 10/7/22

Final Writeup Learning Module #3

Topic(s) covered: Arduino

What they learned: Kevin and Joshua first started learning the basics of using LEDs and learning how we could make them blink as well as adding them together to make a flashing pattern. With Joshua being much more experienced with the uses of arduinos, he taught Kevin most of the time how to use the arduino. After using the LEDs, they later moved on to using a light sensor to be able to tell how bright it was at the location of the sensor. This was new for Joshua as he had not used a light sensor before, but they were able to successfully use it effectively. They then learned how to use a supersonic sensor with the arduinos and how the distance of an object had affected the sensor and the lights on the arduino

Problems encountered / How they solved them: Some smaller problems that had occurred were with either the lights not working as intended or it was sometimes something to do with the sensor. This would happen because we would either put in something wrong, or we would accidentally put either a resistor or something else in the wrong spot. However, each time this happened they were able to solve it especially thanks to Joshua's past experience with arduinos. There was even one time that there was a faulty resistor that, when swapped out, had the arduino light up a bulb much more effectively. Unfortunately though, their last smaller project that they attempted, they were unable to achieve the results that they were hoping for and with not enough time left, they were unable to fix their problem and get it working.

Suggestions for others: It's best to start off by making sure that you have a clear enough idea of how to work an arduino. Programming plays a key role in working an arduino, so it would be recommended that you at least have some idea of how to code in order to work out certain concepts with the arduino. All in all, just come into it prepared and ready to catch any mistakes that you might make and turn it into a lesson. It's okay to make mistakes, as long as you are ready to learn from them.

Summary: Kevin and Joshua learned a good amount during this learning module. Even though Josh had worked with arduinos in the past, there was still more that he learned that he had not known about previously with the arduinos, such as how to use the sensors. Kevin, on the other hand, had never used an arduino before, so just about everything that they had done in this learning module, Kevin was learning at each attempt made to work the arduino. Kevin was not completely lost though, because he had a good enough understanding on how to code, even though the coding language used for the arduinos was a bit different to what he had seen before. Overall, it was a great experience that the both of them had to work together and learn of ways that an arduino can be used and how to work it.