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| *2023* |
| LAB 1 |
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| 1/24/2023 |
| Mr. loveday – PC Setup and Maintenance |
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Purpose:

The purpose of this lab was to install an ATX motherboard into a case and plug in the connections: power supply, hard drive, CD Rom, CPU Fan, and a Case Fan.

Materials:

* Screw Driver
* Motherboard
* 8 Screws
* Pc Case

Procedures and Results:

We started off by grounding ourselves with an anti-static wrist band connected to the chassis of the computer. We analyzed or instruction sheet to follow the next step of carefully lowering the ATX motherboard into the case. From there we connected the eight screws with the magnetized screw driver. We hand tightened the first two corners to establish the placement of the board before we continued tightening the rest. We split the board into two halves, I tightened the four on the left and my partner the four on the right.

Once the motherboard was secure, we separated what cables needed to be connected: two fans, hard drive, CD rom, and the power supply. While most of the connections were straight forward we had some trouble getting the fans to connect properly and be fully seated. The power supply was easier and had a bulky connector piece which made the installation flow smoothly. From there we connected the sata cables into ports one and zero for the CD ROM and the hard drive.

Once we had our machine checked off we were able to disconnect the wires and remove the mother board. We started off with the easier connections such as the sata cables and the power for the hard drive. We ran into some trouble disconnecting the fans since the clip was not wanting to release from the connection on the board. We had to reseat the connection and try a few times, but finally succeeded in removing the connection. After that we removed the power supply connectors and had difficulty disconnecting the bigger connection. After analyzing the piece and understanding how the clip was connected, we managed to remove it.

Finally, we were able to attempt to remove the board from the case. This task was simple since we only had to remove the eight screws and pull the board out. Our only issue with this step was making sure we didn’t harm the board trying to pull it out since the case had an awkward shape and we had to tilt the board to get it out. After that we placed the board back on the anti-static sheet and we were complete.

Data or Observations:

* Difficult to get the board in and out of the case due to the awkward shape
* Screw driver was magnetized
* The clips for the power supply and fans were difficult to remove