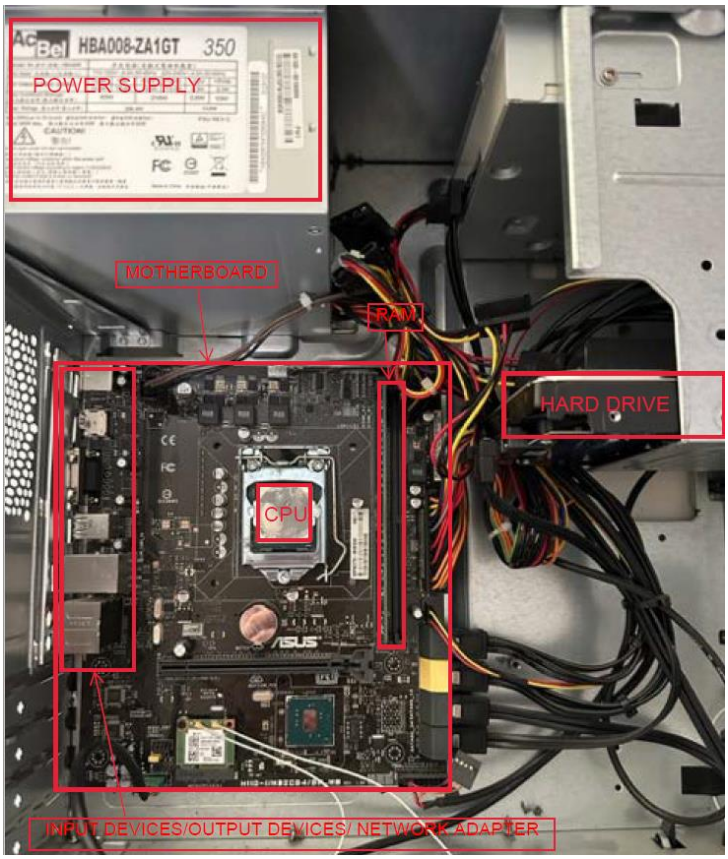
L04: Hardware Dissection Lab

For this assignment, I decided to dissect an ASUS Desktop PC along with a Nintendo Switch Lite. While these two devices contained many similarities, there were some differences between the two of them. For example, the Nintendo Switch utilized a CPU/GPU combination chip while the Desktop PC utilized a stand-alone CPU. The Nintendo Switch also does not have any true output devices other than its USB port. For me, I found it to be more difficult to identify the parts of the Nintendo Switch Lite compared to the Desktop PC. I have built a couple of gaming PCs, so I am familiar with the components of a Desktop PC, but I have never really explored the internal components of any handheld gaming devices such as the Nintendo Switch. Something that struck me as interesting was the design creativity of the Nintendo Switch Lite. With heat dissipation being important for performance, I imagine that the placement of certain components was a key factor in maximizing that performance given the small area in which everything is confined to. Something that I noticed while reading the dissection instructions was that not all components are easily removable. There are certain components, especially in the Nintendo Switch Lite, which are soldered down making them difficult or impossible to repair or replace.

ASUS Desktop PC



Nintendo Switch Lite