

System Maintenance  
CPTR 1122  
Lab 09

- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must insure all answers are legal as defined by the class syllabus.
- All parts of your answers must be neat and easy to read.
- Paragraphs are at least four properly constructed English sentences.
- Embedding documents within documents does not work with the D2L Bright Space assignments.
- Plagiarism will not be tolerated.
- Unless noted, all lab sections must be done as unprivileged login.

**Lab09: Chapter 17: Power Supplies & Chapter 18 Building or Upgrading Systems**

- 9.1. Upload your document to the D2L Bright Space Assignment section 9.1 before the due date found in the 1122a.pdf document.
  - 9.1.1. Select a working lab or similar computer to gather the following information. [ 12 points ]
    - 9.1.1.1. The computer manufacturer, model, and serial number in a PDF file.
    - 9.1.1.2. Provide all the electrical input specifications in a PDF file.
    - 9.1.1.3. Provide all the electrical output specifications in a PDF file.
    - 9.1.1.4. A jpeg picture of the all the different power connectors not embedded in a PDF file.
    - 9.1.1.5. Provide the URL of a site discussing the power connectors shown in a PDF file. [ 12 points ]
  - 9.1.2. Use the class Linux virtual machine or approved virtual machine for the following.
    - 9.1.2.1. The computer manufacturer, model, and serial number in a PDF file.
    - 9.1.2.2. Provide all the electrical input specifications in a PDF file.
    - 9.1.2.3. Provide all the electrical output specifications in a PDF file.
    - 9.1.2.4. A jpeg picture of the all the different power connectors not embedded in a PDF file.
    - 9.1.2.5. Provide the URL of a site discussing the power connectors shown in a PDF file.
  - 9.1.3. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]
- 9.2. Upload your document to the D2L Bright Space Assignment section 9.2 before the due date found in the 1122a.pdf document.
  - 9.2.1. Provide the following information in a text file. [ 24 points ]
    - 9.2.1.1. The manufacturer and model of a desktop system in a PDF file. Include the input power requirement.
    - 9.2.1.2. The manufacturer and model of a compatible monitor to the listed desktop in a PDF file. Include the input power requirements.
    - 9.2.1.3. The manufacturer and model of portable system in a PDF file. Include the input power requirements.
    - 9.2.1.4. The manufacturer and model of a UPS system in a PDF file. Include the input and output power specifications. Identify how long the UPS will power the systems listed in this lab section.
  - 9.2.2. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]
- 9.3. Upload your document to the D2L Bright Space Assignment section 9.3 before the due date found in the 1122a.pdf document.
  - 9.3.1. Create a spreadsheet providing the following information. [ 24 points ]
    - 9.3.1.1. The primary function of a computer you would build.
    - 9.3.1.2. Identify the case manufacturer, model, cost, and vendor.
    - 9.3.1.3. Identify the power supply manufacturer, model, cost, and vendor
    - 9.3.1.4. Identify the main board model, cost, and vendor.
    - 9.3.1.5. Identify the BIOS/UEFI version and chip set version.
    - 9.3.1.6. Identify the CPU manufacturer, model, cost, and vendor.
    - 9.3.1.7. Identify the RAM manufacturer, model, amount, cost, and vendor.
    - 9.3.1.8. Identify the primary storage and interface manufacturer, model, size, cost, and vendor.
    - 9.3.1.9. Identify the USB ports type, number, and any additional required components.
    - 9.3.1.10. Identify the network ports type, number, and any additional required components.
    - 9.3.1.11. Identify the video adapter type, capability, and any additional required components.
    - 9.3.1.12. Identify the monitor manufacturer, model, cost, and vendor.
    - 9.3.1.13. Identify the keyboard manufacturer model, cost, and vendor.
    - 9.3.1.14. Identify the mouse manufacturer, model, cost, and vendor.

- 9.3.1.15. Identify any additional options manufacturer, model, cost, and vendor.
- 9.3.1.16. Cite your source(s) of information.
- 9.3.1.17. Explain how you know all components will work together as a working system.
- 9.3.2. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]

9.4. Upload your document to the D2L Bright Space Assignment section 9.4 before the due date found in the 1122a.pdf document.

9.4.1. Document completion of "Lesson 7: Displaying Data on OLED."

9.4.1.1. Provide a copy of the source code in a text file that includes the following. [ 8 points ]

9.4.1.1.1. The purpose of the code.

9.4.1.1.2. All sources of help with the code.

9.4.1.1.3. Your name and code creation date.

9.4.1.1.4. The complete source code according with the lab instructions.

9.4.1.2. Provide a copy of the source code in a text file that includes the following. [ 8 points ]

9.4.1.2.1. The purpose of the code.

9.4.1.2.2. All sources of help with the code.

9.4.1.2.3. Your name and code creation date.

9.4.1.2.4. The complete source code with a modification you made. Identify the modification.

9.4.1.2.5. Identify if your modification did or did not work. Explain what did happen.

9.4.1.3. Provide a jpeg(s) showing the output from both source code runs. [ 8 points ]

9.4.2. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]