

System Maintenance
CPTR 1122
Lab 02

- 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.

Lab02: Chapter 3: Processor Types and Specifications

- 2.1. Upload your document or presentation to the D2L Bright Space Assignment section 2.1 before the due date found in the 1122a.pdf document.
 - 2.1.1. Select a working lab or similar computer to gather the following information. [24 points]
 - 2.1.1.1. The computer manufacturer, model, and serial number in a text file.
 - 2.1.1.2. A jpeg picture of the main board with identification of the CPU.
 - 2.1.1.3. The output of a program providing only CPU and CPU flags information.
 - 2.1.1.4. Provide a URL explaining each CPU vulnerability listed for the CPU.
 - 2.1.2. 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]
- 2.2. Upload your document or presentation to the D2L Bright Space Assignment section 2.2 before the due date found in the 1122a.pdf document.
 - 2.2.1. Identify a current AMD processor, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file. [5 points]
 - 2.2.2. Identify a current Intel processor, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file. [5 points]
 - 2.2.3. Identify a current AMD processor, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file. [5 points]
 - 2.2.4. Identify a current RISC V processor, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file. [5 points]
 - 2.2.5. Provide a list and the URL of all information sources in a PDF file for ESD safety. [5 points]
 - 2.2.6. 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]
- 2.3. Upload your document to the D2L Bright Space Assignment section 2.3 before the due date found in the 1122a.pdf document.
 - 2.3.1. Use the class Linux virtual machine or approved virtual machine for the following. [24 points]
 - 2.3.1.1. Provide the CPU information in a text file.
 - 2.3.1.2. Provide the name and successful installation of a previously not installed program.
 - 2.3.1.3. Provide the name and results of installing a program for the operating system, but another CPU type.
 - 2.3.2. 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]
- 2.4. Upload your document or presentation to the D2L Bright Space Assignment section 2.4 before the due date found in the 1122a.pdf document.
 - 2.4.1. Document completion of "How To Get Started With Arduino."
 - 2.4.1.1. Provide a jpeg picture showing your Arduino kit is unboxed. [1 point]
 - 2.4.1.2. Provide a copy of the source code in a text file that includes the following. [11 points]
 - 2.4.1.2.1. The purpose of the code.
 - 2.4.1.2.2. All sources of help with the code.
 - 2.4.1.2.3. Your name and code creation date.
 - 2.4.1.2.4. The complete source code.
 - 2.4.1.2.5. The code displays "Hello, World".
 - 2.4.1.3. Provide a copy of the source code in a text file that includes the following. [12 points]
 - 2.4.1.3.1. The purpose of the code.
 - 2.4.1.3.2. All sources of help with the code.
 - 2.4.1.3.3. Your name and code creation date.

- 2.4.1.3.4. The complete source code.
- 2.4.1.3.5. The code displays your name.
- 2.4.1.4. Provide a screen shot pasted, not embedded in a PDF showing successful output "Hello, World".
- 2.4.1.5. Provide a screen shot pasted, not embedded in a PDF showing successful output your name.
- 2.4.2. 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]