

Spring 2022

Reference Document: [Goal 17 Each1 Teach1 Merritt College Digital Forensics Internship 2022](#)

This document is [Calvin Hsieh's](#) Grading Report of [Demetric Jones's](#) [Forensic Examiner's Report](#) and [Evidence Document](#).

Demetric's Documents are copied for grading purposes.

[Copy of Demetric's Forensic Examiner's Report](#) (This document).

[Copy of Demetric's Evidence Document](#).

[Solution Document](#) and [Case Document](#) by [Batkhuu Batsaikhan](#).

=====

Batkhuu's Grading Rubric:

Counterfeit LV: Case Description, Grading Rubric (By Batkhuu Batsaikhan)

Victim reported receiving fake products from online shopping, specifically getting it from craigslist and Alameda County sheriff's office caught the suspect and retrieved a laptop and 8 fake Louis Vuitton bags for evidence.

Case file: [suspect_device1](#)

Grading

100- 90 A

89 - 80 B

79 - 70 C

EXAMINATION

EXAMINER'S NAME: [Demetric Jones](#) [03/26/2022](#)

EXAMINER'S SIGNATURE [03/26/2022](#)

TITLE: [Intern Examiner](#)

TECHNICAL REVIEWER'S SIGNATURE [DATE](#)

FILE NAME: [xxxxxxx](#)

ADMINISTRATIVE REVIEWER'S SIGNATURE [DATE](#)

CASE #: xx-xxxx

CRIME: xxxxxx

VICTIM OR SUSPECT: UNKNOWN

69 - 50 D

49 - 0 F

Visited websites/ website history

- 6 or more artifacts – 15 points 6 found: 15 points.

Downloaded files

- 4 or more artifacts – 15 points 4 found: 15 points

Documents

- 4 artifacts – 15 points 4 found: 15 points

Pictures

- 3 artifacts – 15 points 3 found: 15 points

Recycle bin

- 1 artifacts –10 points 1 found: 10 points.

Deleted and removed from recycle bin

- 2 or more – 10 points

- Found screenshot, but it was not categorized as carved. Not sure whether the deleted password protected folder was found. However, other deleted items were found: 10 points.

Installed/run programs – 10 points

Solution did not provide a list of installed and run programs, but many (installed / run) programs were found: 10 points.

Email addresses -10 points

Only one of the two protonmail addresses is identified in the FE Report. victimemail@proton.com was not identified: 5 points?

Extra points

USB attached – 10 points 5 found: 10 points

Hidden Partition -10 points 9 found: 10 points

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

LAB NUMBER: xxxx DATE: [03/26/2022]

AGENCY: San Francisco Police Department

CASE #: XX-XXXX

CRIME: XXXXXX

VICTIM OR SUSPECT: UNKNOWN

Password protected file – 10 points

The report seems to have identified drive H as containing password protected files, but it did not identify the password protected zip file: 5 points?

Total Score: 120/100.

=====

Demetric's Forensic Examiner's Report:

.....

.....

DIGITAL & MULTIMEDIA EVIDENCE EXAMINATION REPORT

SUBMITTING AGENCY: San Francisco Police Department

LABORATORY NUMBER: xxxxxx

EXAMINATION REQUESTED BY: Sergeant xxxx

VICTIM OR SUSPECT: UNKNOWN

CASE NUMBER: XX-XXXX

LABORATORY CLASSIFICATION: Digital & Multimedia Evidence

DATE OF REPORT: [03/26/2022]

OFFENSE: Counterfeiting

EVIDENCE SUBMITTED:

One unpackaged evidence item (Item 1), relative to the above case, was received into the Laboratory from Sergeant Lee by Sheriff's Technician Jones on [03/24/2022]. The item was found as follows:

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

CASE #: xx-xxxxCRIME: xxxxxxVICTIM OR SUSPECT: UNKNOWN

Item #1:

.VDI Image Batkhuu Batsaikhan (Counterfeit LV Case v2)-15GBW Counterfeit LV Case Description Grading Rubric.docxForensic System/Software/Tools – Acquisition (.VDI):System: HP Laptop, powered on [03/26/2022], no errors during bootWrite Block Device used: N/AAcquisition software used: Oracle VM VirtualBox, VBoxmanager.exe (convert to RAW file)Forensic System/Software/Tools – Analysis (IMG): Autopsy 4.19.3System: HP Laptop, powered on [03/26/2022], no errors during bootAnalysis software used: Autopsy 4.19.3**REQUEST:**

On [03/26/2022], Sergeant Lee of the San Francisco PD submitted a request for the forensic examination of a hard drive reportedly removed from a suspect's computer. Sergeant Lee requested an examination of the hard drive for any images, videos, emails, chat logs, active/deleted/altered files, or any other files that would assist with her investigation.

Sergeant Lee prepared a search warrant that was signed by a judge of the Alameda County Superior Courts authorizing the examination of the digital media. The search warrant was reviewed prior to processing this case.

On [03/26/2022] I examined the submitted hard drive. It appeared to be in working condition. I documented my examination of the hard drive with photographs(evidence doc). In order for the drive to be read the .vdi must first be converted to a raw format. To do the conversions I ran VBoxmanage.exe in the command prompt along with image location paths. Once finished, I then loaded the .img into Autopsy to begin processing the image to extract and analyze the data as well as recover deleted files.

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

CASE #: xx-xxxxCRIME: xxxxxxVICTIM OR SUSPECT: UNKNOWN

I performed a keyword search using the following terms (not case-sensitive)

- Suspect
- LV
- Bag
- .txt
- .png
- Receipt
- PDF

Major Evidence Found

Device Overview

1. System
 - a. System name: DESKTOP-MQL10PA
 - b. Processor: AMD64
2. Software
 - a. OS: Windows 10 Home
 - i. Installation Date / Time: 2022-03-19 17:40:13 PDT
 - ii. Language: English
 - b. Owner: Suspect
3. Partitions
 - a. Partition number (allocation: Sector location)
 - i. Vol 1: Unallocated
 - ii. Vol 2: NTFS / eXFAT
 - iii. Vol 3: NTFS / eXFAT - Main Drive C:/
 - iv. Vol 4: Unallocated
 - v. Vol 7: NTFS / eXFAT
 - vi. Vol 8: Unknown Type
 - vii. Vol 9: Unallocated
 - a. Hidden Partitions (allocation: Sector location)
 - viii. Vol 7: NTFS / eXFAT - Drive H:/
 - ix. Vol 8: Unknown Type - possible error when creating partitions
4. Accounts
 - a. Suspect
 - b. Admin

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

CASE #: xx-xxxxCRIME: xxxxxxVICTIM OR SUSPECT: UNKNOWNc. Guest

5. Devices Attached

- a. USB 1: Root Hub
- b. USB 2: Root Hub 3.0
- c. USB 3: Gembird MicroSD Card Reader/Writer
- d. USB 4: VirtualBox USB Tablet
- e. USB 5: VirtualBox USB Tablet

Internet-Related

6. Internet Activities

a. Web Search Terms

- i. Chrome
- ii. Firefox
- iii. Louis Vuitton
- iv. WinRaR
- v. Craigslist
- vi. Adobe
- vii. Proton mail

b. Web Site Visited

- i. Craigslist.org
- ii. google.com
- iii. Get.adobe.com
- iv. Mozilla.org
- v. Protonmail.com
- vi. Us.louisvuitton.com
- vii. Louisvuittonreplica.to
- viii. Pdffiller.com
- ix. Tech-latest.com
- x. win-rar.com

c. Web Sites Bookmarked

- i. None

d. Online Accounts

- i. suspectemail@protonmail.com
- ii. Acct 2

e. Online Map Locations and Directions

- i. None

f. Downloaded Files

- i. Tracking information.png
- ii. Conversation craigslist.jpg (Evidence Document identify it as recycle bin item)

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

CASE #: xx-xxxxCRIME: xxxxxxVICTIM OR SUSPECT: UNKNOWN

- iii. LV_neverfull_gm.jfif
- g. Downloaded Programs
 - i. ChromeSetup.exe
 - ii. Firefox Installer.exe
 - iii. Winrar.exe
 - iv. Adobereader.exe
- 7. Emails
 - a. Email Accounts
 - i. Suspect used web email with protonmail
 - b. Suspicious Email Addresses
 - i. Email addr 1
 - ii. Email addr 2
 - iii. etc.
 - c. Email Subject Lines or Messages Found
 - i. None
 - d. Email Attachment Downloads
 - i. Conversation_craigslislist.jpg (using Protonmail)
 - ii. Tracking information.png (using protonmail)
 - e. Local Email Clients
 - i. None found
 - f. Email Backups
 - i. None found

Data Files and Programs

- 8. Files
 - a. Plain Text Files
 - i. Make money from fake LV.txt
 - b. Documents of other formats
 - i. Suspect receipt.pdf
 - ii. Victim receipt.pdf
 - iii. Receipt 8 bag.pdf (not visible)
 - c. Images
 - i. LV bag.jfif
 - ii. Louis Vuitton Site .png
 - iii. Louis Vuitton Craigslist post .png (carved?)
 - iv. Louis Vuitton Replica Site .png
 - v. Tracking Information.png
 - d. Videos / Audios / etc.
 - i. None

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

CASE #: xx-xxxxCRIME: xxxxxxVICTIM OR SUSPECT: UNKNOWN

- e. Opened Files
 - i. None
- f. Hidden Files (in visible folders, or in hidden partitions)
 - i. Password Protected Folder in H:/
- g. Files with mismatched extension
 - i. None
- h. Encrypted Files
 - i. None
- i. Deleted Files
 - i. Conversation Craigslist.jpg
- j. Recovered / Carved files
 - i. Suspect Reciept.pdf
 - ii. Victim Reciept.pdf
- 9. Password
 - a. Password found
 - i. LV in .txt document
 - b. Password guessed
 - i. None
 - c. Password cracked
 - i. None
 - d. Password files
 - i. File name Password Protected H:/ (assuming suspect tried to add a password to protect file)
- 10. Programs
 - a. Installed Programs
 - i. Firefox Browser
 - ii. Chrome Browser
 - iii. WinRar
 - iv. McAfee
 - b. Executed Programs
 - i. Firefox
 - ii. Chrome
 - iii. WinRar
 - iv. McAfee
 - v. Adobe
 - c. Log files
 - i. None
 - d. Uninstalled Programs
 - i. None

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

LAB NUMBER: xxxx DATE: [03/26/2022]

AGENCY: San Francisco Police Department

CASE #: xx-xxxx

CRIME: xxxxxx

VICTIM OR SUSPECT: UNKNOWN

Peripherals and Networks

11. Phone backup data

a. None found

12. Network Traffic Files (PCAP):

a. None found

Reconstructed Timeline of Major Events

Time / Date	Event	Artifact Created	Artifact Location	Evidence Category

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____

LAB NUMBER: xxxx DATE: [03/26/2022]

AGENCY: San Francisco Police Department

CASE #: xx-xxxx

CRIME: xxxxxx

VICTIM OR SUSPECT: UNKNOWN

AUTHENTICATION:

During the acquisition process, the forensic software creates a hash value of the media being imaged. These hash values were compared to those generated after imaging and processing of the image file. I verified that the hash values were the same. This indicated that the image file is identical to the original and was not altered during processing.

EVIDENCE DISPOSITION:

Upon completion of the data extraction, the original evidence (Item 1) and the report CD-R (Item 2) prepared for release to the submitting agency.

DISC CONTENTS (as applicable):

N/A

Forensic Examiner's initials _____

Technical Reviewer's Initials _____

Administrative Reviewer's Initials _____