RESTRICTED (when complete)

MG 11 (T)

| CJ Act | t 1967, s.9; MC Act 19 | 80, ss.5A(3)(a) and 5B; (| Criminal 1 | Procedure | e Rules 200 | 5, Rule 27.1 | |
|---|---|---|---|--|--|---|--|
| Statement of | Sahifa Syed | | URN: | | | | |
| Age if under 18 | Over 18 | (if over 18 insert 'over 18') | Occupa | ation: | Student F | orensic Investig | ator |
| make it knowing tl | | pages each signed by me evidence, I shall be liable to be true. | | | | | |
| Signature: | Sahifa SYED | | | Date | : 15/1 | 2/2023 | |
| Tick if witness evide | ence is visually recorde | ed (supply witne | ss details | on rear) | | | |
| student in this cour and digital forensics and computer crime on experience to fu thinking, problem- participating in real classroom to real-life | rse, I am gaining a con s. The curriculum cover e and digital evidence. rther enhance my skill solving, and analytic l-world scenarios and fe situations. It also pro- ensic tools and technic | rity and Digital Forensics nprehensive understand rs a vast scope of subjec . Currently, I am actively s in the field of digital fo al skills necessary for practical exercises, I an ovides me with the oppo ques, ultimately preparin | ing of the ts such as involved rensics. T successf a able to rtunity to | e principles program in condu This allow ful digita apply the owork wi | es and prace of the comming in contracting investors of the contraction of the contractio | ctices of both cy +, introduction tigations and ga velop and expan examinations. cal knowledge g t types of digital | yber security to databases aining hands nd on critica By actively ained in the |
| | | ed my examination in re: Forensic Report & SS2: | | | R V HUNT | TER . Evidence of | f my findings |
| verify the contents | of the evidence files | e contents of the evide with zero errors. Veri- unchanged and its origin | fying the | content | s allows m | e to be sure tl | |
| information and for | und evidence using Au | utopsy. I performed mo utopsy. This is called dua y and clear any doubts o | l verifica | tion and | _ | | |
| | | olders which are also know ered and were in working | | eleted file | es. Using Au | utopsy I verified | the process |
| _ | ound files. The expand | hive files consists of zip f ding of compound files e | | | | | |
| option and enabled its extension has be important to mention | the file signature ana been changed or misi | ne correctness of the MI lysis and hash analysis o dentified. Hash analysis e investigation process, s persisted. | ption. Filo can reli | e signatu ably tell | res can hel us when t | p programs read two files are id | d a file wher lentical. It is |
| Signature: | | Signature witn | essed by: | | | | |

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| Continuation of Statement of | |
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I then determined what user activity has been taken place on the computer, this is called profiling. This involves collecting information which has been stored in the Operating Systems (**OS**) main database, also known as the registry. Within the registry I recovered information related to the system artefacts, time zone, user accounts and various other registry records.

System Artefacts consists of specifics about the computer in use such as the product name, ID, which version in use and a timeline of the install and shut down dates. This gave me a timeline to work with, however it is worth mentioning that there is still a possibility of file activity after the given shutdown date and time as they can be easily manipulated either intentionally or due to errors.

In order for me to gain a better understanding of the timeframe of my investigation I had to modify the time zone on my computer. I modified the time zone information to Central Standard Time (CST) which is accurately aligned with the current case. This enabled me to ensure and understand the correct timestamps of my investigation.

A user account is an identity created for a user in a computer or a computing system. The user accounts on the device gave me insight about three different users: administrators, Bob Hunter, and a guest account. This gave me information about whether these accounts were built into the system or not , if they have permission to access all types of resources (files, networks, etc..) and the timestamps of their last logins.

I also analysed the registry and its protected area. I analysed the registry which consists of a number of 'hive' files. These hive files: software, system, sam and security were taken out from EnCase and analysed on the application called Registry Viewer. They held vital information relevant to the case. For the registry protected area, I analysed NTUSER.dat files by downloading an application called 'RegRipper' from the sway. NTUSER.dat files help create rough timeline during forensic investigations and detect file timestamp tampering. They are also valuable for uncovering evidence of file execution or access, as well as reassembling user activity. From my analysis I was able to find relevant information such as the LastWrite Time, LastVisitedMRU, MRU list and the Last directory.

Additionally within the registry records I was able to find out what types of external drives were attached to the device. I found USB drives which are considered as external drives to be attached to the computer. All of this data was found to be present under the registry, offering a comprehensive view of the devices system configurations.

During the investigation I determined whether the device was protected by a password or not. This was done by downloading an application called 'saminside' which aided me in concluding that the device was not password protected. This meant that the device was accessible by anyone.

I was then able to determine that the computer had been used by a user to access the Internet. I was able to recover evidence to suggest that internet had been used to browse various urls that consisted of stalking related websites. I also recovered some notable emails some of which were deleted as well and this seemed to be of great relevance to the case.

From the results I found from the internet history and emails I expanded my investigation further by performing a comprehensive keyword search. This process involved me using terminology related to stalking, words such as 'stalking, stalker, stalk, money' were searched. This search resulted in various files appearing that could be of potential evidence related to the case.

I also determined if there was user interest in encryption by performing an entropy analysis and viewing relevant .log files. Encryption is the method by which information is converted into secret code that hides the information's true meaning. Entropy analysis involves evaluating the degree of randomness present in data in which EnCase assigns an entropy value to each folder and file. Higher entropy values indicate a higher chance of encryption. I focused on files with entropy values from 6 to 7. I examined the hex representation of the files with the highest entropy values and found one false positive, an MZ executable file that turned out to be an archive file. This method guarantees a thorough investigation into the possibility of encryption within the dataset.

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I carried out an in-depth examination of various instant messaging clients (IM), including Yahoo IM. Under the Yahoo IM records, I discovered a series compelling evidence in the form of IM texts from certain individual and this holds significant relevance to the case.

I also investigated the use of CD/DVD burning apps within the device by searching and viewing particular files such as program files, .log files, and prefetch files. I was able to simplify my search by 'green plating'. This process allows me to select the relevant data in order to find the said files. While searching through the files, I was able to decode a file called Hunter.log that contained a conversation about money, which could be important evidence for the case.

I was also able to determine what print artefacts were being used on the device by viewing/examining the spool files. Spool files saves the data of a file that is meant to be printed. I identified a notable file sent to the printer. I was also able to find out the specifications about the printer in use. The contents of the file and the printer information seemed to be of relevance and potential evidence to the case.

Additionally, I was able to locate and retrieve a large number of temporary files that a user had sent from the computer to be printed. I was able to decode these files and recover evidence relating to stalking and blackmailing activity.

I was able to identify and examine more potential evidence related the case by data carving the files. Data carving allows you to recover files that are not indexed by the file system such as hidden files which are placed in unallocated spaces or deleted files. I found files that were important to the case. It included mail sent from the device to the parent of the individual as it referred to the term 'daughter' more than once a well as images being sent of a woman who does not seem to know that someone is taking pictures of her.

I was able to recover and ensure the integrity of the Recycle Bin files and to verify the 'absence of any bypass'. By verifying the absence of any bypass allowed me to ensure that the files and the data within them in the recycle bin were free of any attacks, flaws or changes and they were all intact. Amongst the files in the Recycle Bin, I recovered a noteworthy file called "Sabrina Derwercs". This name has been repeated multiple times throughout noteworthy emails and pictures found, therefore it seemed of relevance to the case.

I also examined different file types. I utilized EnCase's functionality option and filtered my search allowed me to find files based on their file extensions. An extension is a suffix added to the name of a file to indicate the file's layout, in terms of how the data within the file is organized. I viewed and found multiple files that seemed of significance to the case and may be seemed as potential evidence.

I then determined whether or not any wiping utilities were used on the device. I mainly examined various types of files with the .log or .exe extensions. Once these file types were located I found indications of wiping utilities being in use within the computer. If a wiping utility was in use, it is to intentionally erase a certain amount of data and prevent recovery of it. This seemed of high relevance to the case and an important discovery to be stated.

I attest that the information provided in this witness statement is true and accurate to the best of my knowledge. All of the above is my own work and the evidence found has not been tampered with.

| Signature: | Signature witnessed by: | |
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2003(1)

RESTRICTED (when complete)

| Witn | ess contact details | | | | |
|--|---|--|--|--|--|
| Home | e address: | | | | |
| | | | Postcode: | | |
| Home | e telephone number | Work telephone number | | | |
| Mobile/pager number Email address: | | | | | |
| Prefe | rred means of contact: | | | | |
| Male | / Female (delete as applicable) | Date and place of birth: | | | |
| Former name: Ethnicity Code (16+1): Religion/belief: | | | | | |
| Dates | s of witness <u>non-availability</u> | | | | |
| Witne | ess care | | | | |
| a) | Is the witness willing and likely to attend co | urt? Yes / No. If 'No', include reason(s) o | on MG6. | | |
| b) | What can be done to ensure attendance? | | | | |
| c) | Does the witness require a Special Measures Assessment as a vulnerable or intimidated witness? Yes / No. If 'Yes' submit MG2 with file. | | | | |
| d) | Does the witness have any specific care nee difficulties, visually impaired, restricted mobility or other conc | | bility, healthcare, childcare, transport, , language | | |
| Witne | ess Consent (for witness completion) | | | | |
| a) | The criminal justice process and Victim Per been explained to me | sonal Statement scheme (victims only) ha | s Yes No | | |
| b) | I have been given the Victim Personal State | ment leaflet | Yes No | | |
| c) | I have been given the leaflet 'Giving a witne | ess statement to police — what happens no | ext?' Yes No | | |
| d) | I consent to police having access to my med (obtained in accordance with local practice) | lical record(s) in relation to this matter: | Yes No N/A | | |
| e) | I consent to my medical record in relation to | this matter being disclosed to the defence | e: Yes No N/A | | |
| f) | I consent to the statement being disclosed for care proceedings, CICA | or the purposes of civil proceedings e.g. ch | nild Yes No | | |
| g) | | | | | |
| Signa | ture of witness: | Print na | ame: | | |
| Signa | ture of parent/guardian/appropriate adult: | Print na | ame: | | |
| Addre | ess and telephone number if different from ab | ove: | | | |
| Stater | ment taken by (print name): | Station | 1: | | |
| Time | and place statement taken: | | | | |