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EUROPOL

EU Law Enforcement Agency

Mission:

- Supports its Member States in preventing and combating all forms of serious international and organised crime, cybercrime and terrorism;
- Works with many non-EU partner states and international organisations;
- supports investigations initiated by Member States.

Digital Forensics Lab

- Advanced Digital Forensics;
- Device Unlocking & Data Extraction;
- Decryption services;
- Vehicle forensics;
- Advanced on-the-spot forensic support;
- Research and Development;
- Specialised training.

Career in Digital Forensics?



- Becoming
- Day-to-day job
- How to get started – education, trainings, skills, tools
- Opportunities
- Challenges
- Balancing professional and private life
- Take away

Becoming

Joined the office for combating
cyber crime

2008

2010

Obtained CFCE certification

Started providing trainings
& coaching

2011

2015

Joined Europol as a SNE

From SNA to TA

2018

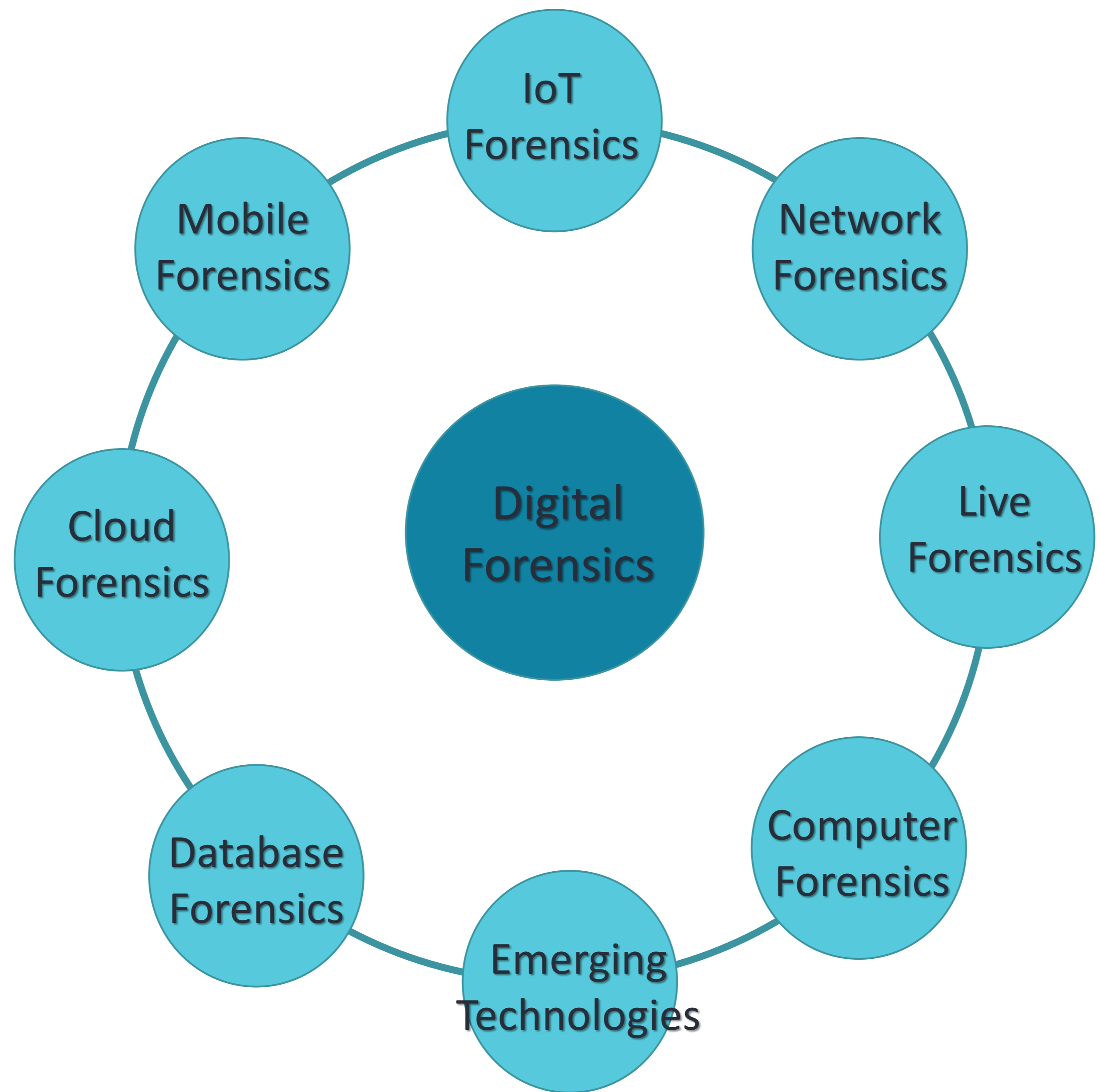
2020

Master in Digital Forensic
Investigations

Definition

“The application of investigative and analytical techniques to identify, preserve, extract and document digital evidence in a way that’s suitable for presentation in a court of law.”

<https://www.iacis.com/>



Day-to-Day Job

- Conduct examination to acquire digital evidence from digital devices;
- Support crime analysts and investigators;
- Provide 'on the spot' support for operations;
- Advise investigators on the availability and reliability of digital evidence;
- Draft forensic reports and provide evidence in court;
- Study new developments in the area of digital forensics;
- Develop methods, techniques, tools, processes and policies;
- Provide training to cybercrime investigators and digital forensic examiners;

Skills & Experience

- General technical/IT background;
- Studies related to computer science, IT security etc;
- Knowledge in Operating Systems, File Systems, networks, cloud, encryption, volatile data, embedded systems etc;
- Data recovery, carving and reconstruction;
- IoT, mobile devices, vehicle's infotainment systems;
- Chip-off, JTAG, PCILeech;
- Coding;
- Reporting, documenting;

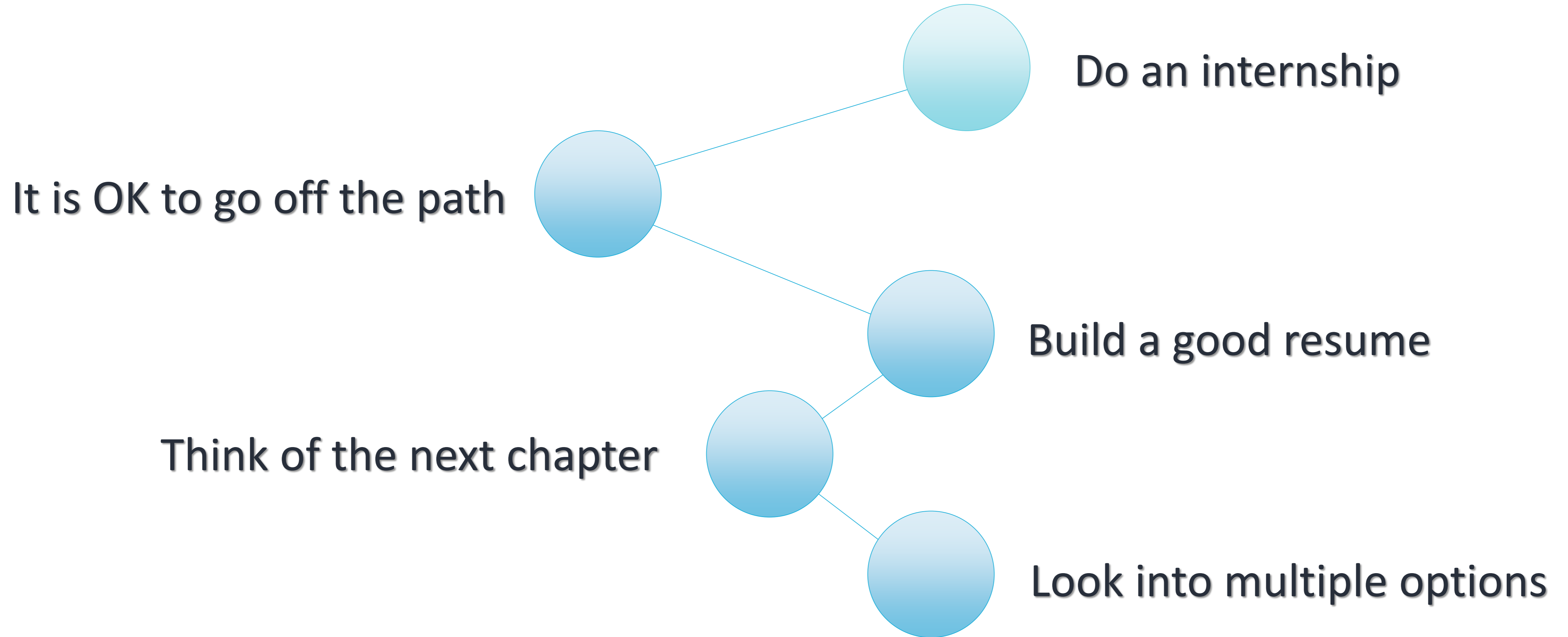
Tools

- Acquisition;
- Data parsing;
- Data recovery & carving;
- Data analysis;
- Visual representation;
- Indexing;
- Decryption;
- Device unlocking.

Education & Training

- Undergraduate college/university programs;
- Master degrees;
- On-the-job training;
- Commercial trainings;
- Free trainings, webinars etc;
- Self study, research, practice;
- Certifications;
- Workshops, conferences;

Job Opportunities



Job opportunities



Law Enforcement



**Public/Private
Sector**



**EU Agencies/International
Organisations**

Challenges

- Incidences can happen at anytime – work after hours;
- Put up with rapid changes;
- Big data;
- Stress – pressure;
- Work – life balance;
- Have patience;
- Difficult encounters;

Challenges

- Lack of role models and mentors;
- Bias and discrimination;
- Difficulty balancing work and personal life;
- Lack of Representation;
- Career Advancement;

The gap

- Women make up only 11% of the digital forensics workforce;
- They earn less than men;
- They are underrepresented in leadership positions.

Diversity

- Diversity fosters innovation and creativity;
- Diverse teams are more effective at problem-solving;
- Diverse perspectives lead to better outcomes.

Finding balance

- Time management
- Flexible work arrangements
- Workplace support
- Delegation
- Self-care
- Difficult to say no
- Leave the case at the office

Take away

- Be the difference
- Find your niche
- Practice
- Never stop learning
- Be a team player
- If you don't know, ask
- Share the knowledge
- Be confident – don't be afraid to fail
- Have patience
- Take care

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- Rapid changes in technology
- Every case is unique – putting puzzles together
- Allows you to be creative
- Solving cases and bringing justice to victims
- Acquiring & utilising different skills
- Different work environment
- Work everywhere from anywhere
- Still cool
- R&D opportunities

Thank you for your attention!

Questions?

www.europol.europa.eu

