# Mohamad Mansouri, Ph.D.

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- ▼ Toulouse, France



## **Summary**

- Cryptographer experienced in designing crypto implementations based on highest security standards.
- Software engineer specialized in developing software for embedded devices.
- Exhibits excellent problem-solving, project management, writing, and communication skills.

## **Employment History**

- **Senior Cryptography Software Engineer. (2023 present)** NXP Semiconductors, France.
  - Developing and maintaining cryptography libraries for NXP products.
  - Hardening NXP crypto libraries against fault-attacks and side channel attacks.
- Security Research Engineer. (2020 2023) Thales SIX GTS, France.
  - Researching and developing new security solutions.
  - Integrating research results in Thales products.
- Final Year Internship. (2019) Stevens Institution of Technology, USA.
  - Researching automatic patching and remediation techniques
- **Summer Internship. (2018)** Digital Security Department, EURECOM, France.
  - Researching privacy-preserving techniques for machine learning
- **Penetration Tester. (2017)** NetRom Consultants, Lebanon.
  - Performing black-box penetration testing for web applications and internal networks.

### **Education**

- Ph.D., University of Sorbonne. (2020 2023) Cryptography and Security.
- Engineering Diploma, Telecom Paris Tech (EURECOM). (2017 2019) Digital Security.
- Engineering Diploma, Lebanese University. (2013 2017) Telecommunication and Electronics.

#### **Skills**

Cryptography NIST and ISO/IEC Standards, AES, ECC, RSA, PQC, Zero-Knowledge Proofs.

Programming Embedded C, C++, Python, Assembly (Arm, RISC V), PHP.

Code Quality MISRA and CERT-C standards, Code coverage analysis

Code Security SCA, Fault-Attacks, Reverse Engineering (IDA Pro, Radare2, Intel Pin, Frida).

Team Tools | Jira, Bamboo, BitBucket, Git, Svn, Jenkins, Collabnet.

PenTesting | Web apps (OWASP), Android apps

Languages | English (Professional), French (Intermediate), Arabic (Native).

Soft Skills Agile, Communication, Presentation, Critical Thinking, Project Management.

### **Research Publications**

- Mansouri, M. (2023). *Performance and Verifiability of IoT Security Protocols* (Theses, Thèses de Sorbonne Université). Retrieved from *§* https://hal.science/tel-04116533
- **Mansouri**, **M.**, Önen, M., Ben Jaballah, W., & Conti, M. (2023). Sok: Secure aggregation based on cryptographic schemes for federated learning. In IACR (Ed.), *Pets 2023, 23rd privacy enhancing technologies symposium, 10-15 july 2023, lausanne, switzerland (hybrid conference).* IACR, Lausanne.
- Mansouri, M., Xu, J., & Portokalidis, G. (2023). Eliminating vulnerabilities by disabling unwanted functionality in binary programs. In *Proceedings of the 2023 acm asia conference on computer and communications security* (pp. 259–273). Odoi:10.1145/3579856.3595796
- Marcelli, A., Graziano, M., Ugarte-Pedrero, X., Fratantonio, Y., **Mansouri**, **M.**, & Balzarotti, D. (2022). How machine learning is solving the binary function similarity problem. In Usenix (Ed.), *Usenix 2022, 31st usenix security symposium, 10-12 august 2022, boston, ma, usa*, Boston. Retrieved from <code>% https://www.usenix.org/conference/usenixsecurity22/presentation/marcelli</code>
- **Mansouri**, **M.**, Ben Jaballah, W., Önen, M., Rabbani, M. M., & Conti, M. (2021). Fadia: Fairness-driven collaborative remote attestation. In *Proceedings of the 14th acm conference on security and privacy in wireless and mobile networks* (pp. 60–71). **6** doi:10.1145/3448300.3468284
- Mansouri, M., Bozdemir, B., Önen, M., & Ermis, O. (2020). Pac: Privacy-preserving arrhythmia classification with neural networks. In A. Benzekri, M. Barbeau, G. Gong, R. Laborde, & J. Garcia-Alfaro (Eds.), Foundations and practice of security (pp. 3–19). Ø doi:10.1007/978-3-030-45371-8\_1