Mazen Alwadi **Last update: October 03, 2021**

CONTACT INFORMATION
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RESEARCH INTERESTS
- **Computer Architecture, Hardware Security, Disaggregated Memory Systems, Non-Volatile Memory**

EDUCATION

University of Central Florida, Orlando, FL 2019–2020
- Ph.D. in Computer Engineering.
  Dissertation: *High Performance and Secure Execution Environments for Emerging Architectures*
- Advisor: Prof. Amro Awad

Yarmouk University, Jordan. 2014–2017
- M.Sc. Computer Engineering. Thesis: *Video Indexing Based on Scene Features*

Jordan University of Science and Technology, Jordan 2007–2012
- B.Sc. Computer Engineering

PROFESSIONAL EXPERIENCE
- **Assistant Professor at Jordan University of Science and Technology** Oct./2021–Now
- **Research Assistant at University of Central Florida** May/2019–Dec/2020
- **Teaching Assistant at University of Central Florida** Jan./2019–May/2019
- **Teaching Assistant at Tennessee Tech. University** Aug./2018–Jan./2019
- **Research Assistant at Tennessee Tech. University** Jan/2018–Aug./2018
- **Security Consultant at GBB Dubai** Nov./2015–May/2016
- **Network Security Engineer at Amman Stock Exchange** Aug./2013–Nov./2015
- **Software Engineer at ITG** Dec./2012–Aug./2013
- **Software Engineer at SEDCO** Oct./2012–Dec./2012

TEACHING EXPERIENCE
Teaching experience included teaching the classes, preparing the teaching material, quizzes, exams, conducting office hours, and grading.

- **Assistant Professor at Jordan University of Science and Technology** Oct/2021–Now
  - **CPE 323: Teaching 5 sections.**
  - **CPE 354: Teaching 1 section.**
- **Teaching Assistant at University of Central Florida** Jan./2019–May/2019
  - **EEL 4768: Stand-in instructor when professor is travelling.**
  - **ENG3211: Teaching Assistant for 1 section.**
  - **EEL 3657: Teaching Assistant for 1 section.**
- **Teaching Assistant at Tennessee Tech. University** Aug./2018–Jan./2019
  - **ECE 2001: Teaching Assistant for 1 sections and 3 labs.**
  - **ECE 2110: Teaching Assistant for 1 section.**

PUBLICATIONS

1. **Mazen Alwadi**, Rujia Wang, Clayton Hughes, Simon Hammond, David Mohaisen, Amro Awad
   Minerva: Rethinking Secure Architectures for the Era of Fabric-Attached Memory Architectures
   The 36th IEEE International Parallel and Distributed Processing Symposium (IPDPS-2022)

2. **Mazen Alwadi**, David Mohaisen, Amro Awad
   ProMT: Proactive Highly Performing and NVM Friendly Integrity Tree
   The 35th ACM International Conference on Supercomputing (ICS-2021)
   Best Paper Award Nominee.

3. **Mazen Alwadi**, Vamsee Reddy, Calyton Hughes, Simond Hammond, Amro Awad
   Stealth-Persist: Architectural Support for Persistent Applications in Hybrid Memory Systems
   The 26th IEEE International Symposium on High Performance Computer Architecture (HPCA-2021)

4. **Mazen Alwadi**, Kazi Abu Zubair, David Mohaisen, Amro Awad
   Phoenix: Towards Ultra-Low Overhead, Recoverable, and Persistently Secure NVM
   IEEE Transactions on Dependable and Secure Computing (TDSC), 2020

5. **Mazen Alwadi**, Amro Awad
   Caching Techniques for Security Metadata in Integrity-Protected Fabric-Attached Memories
   EAI Endorsed Transactions on Security and Safety, 2020

6. Amro Awad, Suboh Suboh, Kazi Abu Zubair, Mao Ye and **Mazen Al-Wadi**
   Persistently-Secure Processors: Challenges and Opportunities for Securing Non-Volatile Memories
   IEEE Computer Society Annual Symposium on VLSI (ISVLSI), 2019

7. **Mazen Alwadi**, David Mohaisen, Amro Awad
   WIP– Phoenix: Towards Ultra-Low Overhead, Recoverable, and Persistently Secure NVM
   The 57th Design Automation Conference (DAC), 2020

Public Presentations

- Paper presentation of "ProMT: Proactive Highly Performing and NVM Friendly Integrity Tree" at The 35th ACM International Conference on Supercomputing
- Paper presentation of "Stealth-Persist: Architectural Support for Persistent Applications in Hybrid Memory Systems" at The 26th IEEE International Symposium on High Performance Computer Architecture
- Poster presentation of "Phoenix: Towards Ultra-Low Overhead, Recoverable, and Persistently Secure NVM" at The 57th Design Automation Conference

Skills

- **Simulators:** GEM5, SST, DRAMSim2
- **Programming Languages:** C, C++, Python, Java, C#, VB
- **Operating Systems:** Linux, macOS, Windows
- **Design space exploration**
- **Workload characterization and analysis**
- **Proposing novel ideas and writing academic papers**
- **Reporting and presenting the research progress**
- **Mentoring:** Undergraduates, M.Sc., and junior Ph.D. students
- **Developing research funding proposals**

References

Prof. **Amro Awad**
North Carolina State University
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Prof. **David Mohaisen**
University of Central Florida
E-mail: mohaisen@ucf.edu

Prof. **Rickard Ewetz**
University of Central Florida
E-mail: Rickard.Ewetz@ucf.edu