

Milad Kahsari Alhadi

[B.Eng in Software Engineering]
[Islamic Azad University, Golestan, Iran]

Summary:

- I am a B.Eng student in Islamic Azad University, Golestan, Iran who has the keen interest in Secure Application Development, Exploit Mitigation Techniques, Software Vulnerability Research, Secure Satellite Communication, Mathematics Modeling, Hardware Security, Embedded Memory Security, Semiconductors Failure Analysis Methods, Kernel Mode Malicious Software Analysis and Digital Forensic Analysis.

Contact Information:

- Email:** m.kahsari@gmail.com
- Website:** <https://www.myfreetime.ir>
- Speaking:**

Esperanto	(Intermediate)
Russian	(Introduction)
Persian	(Native)
English	(Fluent)
- GRE Subject:**

Mathematics	(I am preparing for the exam.)
Physics	(I am preparing for the exam.)
- GRE General:**

Quantitative Reasoning	(I am preparing for the exam.)
Verbal Reasoning	(I am preparing for the exam.)
Writing	(I am preparing for the exam.)
- TOFEL:** Writing (26), Reading (30), Listening (26), Speaking (27)
- IELTS:** Writing (8), Reading (9), Listening (8), Speaking (8)

Interested fields of Research and Development:

Reverse Engineering Executables and Low-Level (Device Driver) Development:

- ✓ MIPS Architecture
 - 3 32-bit Processors
 - 3 64-bit Processors
- ✓ ARM Architecture
 - 3 32-bit Processors
 - 3 64-bit Processors
- ✓ Intel Architecture
 - 3 X86 Processors
 - 3 X64 Processors

Software and Malicious Software (U-Mode and K-Mode) Analysis:

- ✓ Kernel-User Mode Malicious Executable Analysis:
 - 3 Linux Executables - ELF.
 - 3 Android Executables - APK.
 - 3 Windows Executables - EXE.
 - 3 Macintosh Executables - MACHO.
- ✓ Computer Digital Forensics and Investigation.
- ✓ Vulnerability and Exploit Researchs:
 - 3 Static Vulnerability Analysis.
 - 3 Dynamic Vulnerability Analysis.
 - 3 Fuzzing and Automated Vulnerability Analysis.
- ✓ Firmware and Malicious Bios-UEFI Analysis.

Discrete Mathematics and Artificial Intelligence:

- ✓ Machine Learning
- ✓ Cryptography

Networking and Satellite Communication:

- ✓ Secure and Reliable Communication.
- ✓ Network Penetration Testing.
- ✓ Network Protocol Analysis.

Industrial Control Systems Security:

- ✓ Semi-Invasive/Non-Invasive/Invasive Attacks on Secure Microcontrollers.
- ✓ Programmable Logic Controllers Security.
- ✓ Real-Time Operating Systems Security.
- ✓ Attacks on Secure Microcontrollers.
- ✓ Physically Uncloneable Functions.
- ✓ Flash Memory 'Bumping' Attacks.
- ✓ Semiconductor Failure Analysis.
- ✓ Embedded Systems Security.
- ✓ Process Control Safety.
- ✓ Hardware Trojans.
- ✓ Fault Injection.
- ✓ Glitch Attacks.

Education:

- }] **B.Eng:** Software Engineering, Azad University of Golestan
Dissertation Title: *Enhance Security of ICS Systems with Virtualization, 2017*
- }] **A.Eng:** Software Engineering, Shahid Chamran University
Dissertation Title: *Practical Malware, Bootkit and Rootkit Analysis*

Experience:

- }] **Part Time – Malware Analysis and Reverse Engineering Instructor:**
✓ *Faradars Online University, Tehran, Iran Islamic Republic of, 2016-Present*
- }] **Part Time – ICS and Embedded Security Instructor:**
✓ *Kaipod Security Training Center, Yazd, Iran Islamic Republic of, 2016-Present*
- }] **Part Time – ICS and Embedded Security Instructor:**
✓ *Oil Industry Training Center, Mahmoodabad, Iran Islamic Republic of, 2016-Present*
- }] **Part Time – System Security Researcher:**
✓ *Kashef Banking Security Governance, Tehran, Iran Islamic Republic of, 2012-Present*
- }] **Part Time – Metasploit Framework Instructor:**
✓ *Webmooz Online E-Learning, Tehran, Iran Islamic Republic of, 2012-Present*
- }] **Part Time – System Security Researcher:**
✓ *Kavosh Security Center, Tehran, Iran Islamic Republic of, 2010-2012*

Practical Projects in Software Development:

- 1. Shellcoder:**
 - a. **Language:** Python
 - b. **Link:** <https://github.com/miladkhsarialhadi/shellcoder>
- 2. Cuckins:**
 - a. **Language:** Python
 - b. **Link:** <https://github.com/miladkhsarialhadi/cuckins>
- 3. Sandes:**
 - a. **Language:** C
 - b. **Link:** <https://github.com/miladkhsarialhadi/sandes>

Education Research and Publication:

Conferences and Symposiums:

- 1. PLC Security - From Software to Hardware Security:**
 - ✓ The 5th Information and Communications Security Conference & Expo in Oil Industry - IoT Approach.
 - ✓ Milad Khsari Alhadi, 2016
 - ✓ **Downloads:** ([Slide](#))

Workshops and Seminars:

- 1. Fundamental CS and PLC System Security:**
 - ✓ Kaipod Security Center, Yazd, Republic Islamic of Iran.
 - ✓ Milad Khsari Alhadi, 2016
 - ✓ **Downloads:** ([Files](#))
- 2. Fundamental System Security:**
 - ✓ Mahmoudabad Training Center NIOC, Republic Islamic of Iran.
 - ✓ Milad Khsari Alhadi, 2016
 - ✓ **Downloads:** ([Files](#))

Articles Publication:

- 1. Enhance Security of ICS Systems with Virtualization,**
 - ✓ The 6th Information and Communications Security Conference & Expo in Oil Industry - IoT Approach.
 - ✓ Milad Khsari Alhadi, 2016
 - ✓ **Downloads:** (PDF - Slide)
- 2. SHA-1 Vulnerability Impact on Secure Communication Ecosystem,** Milad Khsari Alhadi, 2017
 - ✓ The 6th Information and Communications Security Conference & Expo in Oil Industry - IoT Approach.

- ✓ Milad Kahsari Alhadi, 2016
- ✓ **Downloads:** (PDF - Slide)

Books Publication:

1. **Practical Malicious Software Analysis**, Dibagaran Publication, 2014
2. **Metasploit - The Penetration Tester's Guide**, Arna Publication, 2012
3. **ICS System - The Penetration Tester's Guide**, Free Published, 2013
4. **Wireshark - The Penetration Tester's Guide**, Free Published, 2011
5. **BurpSuite - The Penetration Tester's Guide**, Free Published, 2010
6. **Sandbox - The Penetration Tester's Guide**, Free Published, 2010