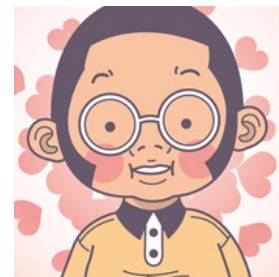# Shervin **Fallahnejad**

EMBEDDED HARDWARE/FIRMWARE DEVELOPER · ELECTRONICS EXPERT

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"Be the change that you want to see in the world."

Education

Semnan Azad University (SIAU)   *Semnan, Iran*

B.Sc. IN INDUSTRIAL ENGINEERING - INDUSTRIAL PRODUCTION   *Sep. 2004 - Exp. May. 2010*

Skills

Electronics	Altium Designer, LabView, PSpice, Keil uVision, MPLAB, MikroC, MikroBasic, MikroPascal, HT-IDE3000(Holtek), Proteus, Bascom, CodeVision
Mechanics	SolidWorks, AutoCad
Programming	C/C++, Basic, Pascal, Visual CSharp, Visual Basic, Java
GUI	Qt, HTML, CSS, JS
Platform	Microcontroller, Linux, Windows, Android, Commodore 64
DevOps	Bash, git, cmake

Experience

YAMA Electronics   *Tehran, Iran*

CO-FOUNDER & ELECTRONICS DESIGN ENGINEER   *Sep 2020 - Present*

- We are producing Home Appliances electronic boards, such as Kitchen Hood, Oven, Stove Timer, etc... .
  We are working with different company in whole country (Iran).

Unalink Co.   *Tehran, Iran*

ELECTRONIC DESIGN ENGINEER   *Apr 2020 - Sep 2020*

- Designed a Remote Terminal Unit (RTU) to enable information exchange between physical power grid and distributed control system.
- Developed a web server to communicate data from web to RTU on STM32.

Ovio Smart World - Smart Home and Office Automation   *Tehran, Iran*

SOFTWARE & HARDWARE ENGINEER   *Aug 2013 - Present*

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

Samsson Group   *Tehran, Iran*

SOFTWARE & HARDWARE ENGINEER   *Aug 2013 - Present*

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

Fara Fan Faraz Tadbir   *Tehran, Iran*

SOFTWARE & HARDWARE ENGINEER   *Aug 2013 - Present*

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

Tosan Rahvar - Design and Production of Electronic Switches   *Tehran, Iran*

SOFTWARE & HARDWARE ENGINEER   *Aug 2013 - Present*

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

Negaresh Rayaneh Pouya (NRP)

SOFTWARE & HARDWARE ENGINEER

Tehran, Iran

Aug 2013 - Present

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

NoAvaran Tajhizat Imen Bargh (NATIB)

SOFTWARE & HARDWARE ENGINEER

Tehran, Iran

Aug 2013 - Present

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

Kimia Behsanj

SOFTWARE & HARDWARE ENGINEER

Tehran, Iran

Aug 2013 - Present

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

Gaam Electric - Welding & Cutting Equipment

ELECTRONIC DESIGN ENGINEER & FIRMWARE DEVELOPER

Sari, Iran

Nov 2011 - Mar 2013

- Designed and developed a GUI and Hardware as a HMI for TIG 500A welding machine.
- Designed and developed a Database on PIC32 to handle lots of data related to welding machine.
- Implement a software in CSharp to communicate with a Hardware for test welding machines operations.

Extracurricular Activity

B10S (B1t 0n the Security, Underground hacker team)

CORE MEMBER

S.Korea

Nov. 2011 - PRESENT

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

WiseGuys (Hacking & Security research group)

MEMBER

S.Korea

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

PoApper (Developers' Network of POSTECH)

CORE MEMBER & PRESIDENT AT 2013

Pohang, S.Korea

Jun. 2010 - PRESENT

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

MEMBER

Pohang, S.Korea

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

MSSA (Management Strategy Club of POSTECH)

MEMBER

Pohang, S.Korea

Sep. 2013 - PRESENT

- Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- Gained expertise in business strategy areas and inisght for various industry from weekly industry analysis session.

Honors & Awards

INTERNATIONAL

2014	**Finalist**, DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist**, DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist**, DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2012	**6th Place**, SECUINSIDE Hacking Competition World Final	*Seoul, S.Korea*

DOMESTIC

2015	**3rd Place**, WITHCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**2nd Award**, HUST Hacking Festival	*S.Korea*
2010	**3rd Award**, HUST Hacking Festival	*S.Korea*
2012	**3rd Award**, Holyshield 3rd Hacking Festival	*S.Korea*
2011	**2nd Award**, Holyshield 3rd Hacking Festival	*S.Korea*
2011	**5th Place**, PADOCON Hacking Competition Final	*Seoul, S.Korea*

Presentation

6th CodeEngn (Reverse Engineering Conference) *Seoul, S.Korea*
PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS> *Jul. 2012*
- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea *S.Korea*
PRESENTER FOR <METASPLOIT 101> *Sep. 2012*
- Introduced basic procedure for penetration testing and how to use Metasploit

Writing

A Guide for Developers in Start-up *Facebook Page*
FOUNDER & WRITER *Jan. 2015 - PRESENT*
- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab *S.Korea*
UNDERGRADUATE STUDENT REPORTER *Oct. 2012 - Jul. 2013*
- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*
2012	**Staff**, 7th Hacking Camp	*S.Korea*
2012	**Problem Writer**, 1st Hoseo University Teenager Hacking Competition	*S.Korea*
2012	**Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition	*S.Korea*