

**Hossein F.Tafreshi** *April 22, 1987*

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## OBJECTIVE:

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Communication or Electronics system engineering position.

## SUMMARY:

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Hossein F.Tafreshi received the B.S. degree in 2010 From TAUT (Amir Kabir University branch) and M.S. degree in 2014 from Imam Khomeini International University (IKIU). From 2005 to 2010 while he was studying the B.S. level, was teacher assistant in signal processing, communication systems and C programming. In 2010 he was accepted in IKIU with the first rank of the university. From 2011 to 2014 he was the research assistant of Dr. A.Soltani and Dr. A.Taherpour. Also he was advisor for B.S. students. He has a publication and a patent in this area including "Spread Spectrum Audio Watermarking: Enhancement of Detection and Watermarking Capacity", ICEE IEEE conference and the patent including "Digital Audio Watermarking System".

In 2013 he was joint to the Iran National Communication and Electronics Research Center and has worked and done research there until now. He has accomplished several projects such as spread spectrum watermarking, Language identification (LID), source and line coding recognition and CDMA communication systems. In March 2014 he was accepted in Iran National Elitism Committee and received the prize of the best inventor from Kavir Invention Festival under supervision of Elitism National Committee.

## EDUCATION:

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- M.S.c in Electrical Engineering with specialization in Communication Systems from Imam Khomeini International University- IKIU (September 2011 up to 2014).  
Total GPA: 16.25 out of 20. (Senior project rank: 19.15 out of 20)

- B.S.c in Electrical Engineering with specialization in Electronics from Tafresh University (AmirKabir Branch) (September 2005 to September 2010).  
Total GPA: 15 out of 20.
- Dip. With specialization in Mathematical & Physics from Khayam High School, Tehran  
Total GPA: 18.33 out of 20.

#### HONORS:

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- Winner of the best inventor from *Kavir Invention Festival* under supervision of *Elitism National Committee*.

#### RESEARCH EXPERIENCES AND ACCOMPLISHED PROJECTS:

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- Blind watermark data reconstruction from spread spectrum watermarked audio under supervision of *Nasr Electronics and Communication Research Center*.
- Blind source coding reconstruction under supervision of *Nasr Electronics and Communication Research Center*.
- Design and customize language identification system for four languages (Spanish, English, Persian and Arabic) under supervision of *Nasr Electronics and Communication Research Center*.
- Senior M.Sc project was about “Robust Digital Speech Watermarking” under supervision of Dr. Ali Asghar Soltani and Guidance of Dr. Abbas Taherpour.
- Senior B.Sc project was about “Design and Implement Wireless Sensor Network System” under supervision of Dr. Mohammad Javad Abdollahi Fard.
- Design and Simulate Special Modem Block under supervision of *Pardazan Communication research center*.
- Study the surface roughness and design the vector maps under supervision of *Prof. Mohsen Davoudi- Image Processing Project*.

#### PAPERS and PATENT:

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- **H.F.Tafeshi** “Digital Audio Watermaking System”, *patent registration number: 80776, registerd on 7 October 2013*.
- **H.F.Tafreshi**, A.Soltani Farani, “Spread Spectrum Audio Watermarking: Enhancement of Detection and Watermarking Capacity” in *IEEE 22th ICEE Conference , May 2014*.

- **H.F.Tafreshi**, A.Soltani Farani, “Capaciuos Spread Spectrum Watermarking”, *under submission*.

#### PROFESSIONAL INTERESTS:

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- Wireless Communication
- CDMA Communication
- Spread Spectrum Communication
- Digital Signal Processing
- Digital Speech Processing
- Digital Speech Watermarking
- Coding and Information Theory
- Audio Watermarking and Steganography
- Automatic Language Identification Systems (LIDs)

#### SKILLS:

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- CAD Tools: MATLAB , Orcad, Code Vision AVR, GUI designing
- Programming Languages: C programming specialization for AVR Microcontrollers
- Digital Design and Microcontroller Programming
- Office Products: Word, Excel, PowerPoint, Outlook
- Graphical software (Photoshop, Corel Draw, Ulead VideoStedio etc)
- Operating System: Windows XP/Vista/7
- Familiar with computer hardware

#### ENGLISH LANGUAGE PROFICIENCY:

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- I studied English up to level of Advanced so I am able to comprehend English concepts and talk about them.

#### LEISURE INTERESTS:

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- Volleyball, Body Building, Ping-Pong, Swimming.