

# Résumé

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- Research Interests**
- Brain To Computer Interface
  - Neuroscience
  - Image Processing
  - Digital Signal Processing
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- Education**
- **B.Sc. in Electrical engineering-Communication:** Isfahan University of Technology(IUT),Isfahan, Iran
  - **Diploma in Mathematics and Physics Discipline:**ShahidMojtabaJafari, Kermanshah,Iran
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- Research Experiences**
- **Researcher : "Center of Brain Engineering"**  
(September 2015-Present) IPM - Institute for Research in Fundamental Sciences, Tehran,Iran
  - **Researcher : "School of Cognitive Sciences "**  
(April2015-September2015) IPM - Institute for Research in Fundamental Sciences, Tehran,Iran
  - **Researcher : "Monkey lab"**  
(November2014-April2015) , Iran university of science and technology,Tehran,Iran
  - **Researcher : " Isfahan Science and Technology Town "**  
(2013-2014),Isfahan,Iran
  - **Researcher : "Medical Image and signal Processing Research Center(MISP)"**  
(2012-2013) Isfahan , Iran

- Practical Experiences And Projects**
- **Analysis of neural spontaneous activity of primary visual cortex of the brain.**  
(in progress)
  - **Analysis of neural adaptation in primary visual cortex of the brain.**  
(in progress)
  - **Implementation of image processing algorithms for a counter closed-circuit television.**  
June 2014-November2014
  - **Designing shoes on the basis of ankle movement patterns, using Neural Network and ImageProcessing methods,2012-2013**
  - **Improving the performance of a Motor Imagery based BCI system, using optimization algorithms 2013-2014**
  - **Implementation of an object-recognizer robot, using Xilinx ISE**  
May 2014

- **Simulation of signal processing algorithms using system generator,Xilinx ISE-MATLAB** June 2014
  - **Simulation of signal processing algorithms using system generator,Xilinx ISE-MATLAB** June 2014
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## **Publications**

- **Alikhani M**, Rahimabadi A, Rahim Nasrabadi H, Zangane M, Davodnia V, Lashgari, R. "Neural adaptation in primary visual cortex of awake primates". Chicago, IL: **Society for Neuroscience** 2015
- Rahimabadi A, **Alikhani M**, Davodnia V, Zangane M,Rahim Nasrabadi H, Lashgari, R. "Method for analyzing neuronal response variability based on frequency response amplitude". Chicago, IL: **Society for Neuroscience**2015

## **Teaching Experiences**

- **workshop presenter "Motor Imagery Based BCI"**  
3<sup>rd</sup> basic and clinical neuroscience congress, October 30, 2014,Razi convention center,Tehran,Iran
- **Matlab workshop**  
Isfahan University of Technology(IUT),Isfahan, Iran
- **Neural network workshop**  
Isfahan University of Technology(IUT),Isfahan, Iran

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## **Computer Skills**

- Programming skills : MATLAB , C , C++, Verilog.
  - Engineering Software: MATLAB, EEGLAB , BIOSIG, Xilinx ISE, Active-HDL,Modelsim
  - Misk: Microsoft Office
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## **Language**

- **Farsi:** Native
  - **English:** Fluent
  - **Arabic:**Novice
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## **Hobbies**

- Reading psychological books,Writing ,Story designing, Dancing ,Playing Vollyball ,Mountain climbing
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