

# Hessamoddin Ghassemi

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Hessam Ghassemi is an expert in Software Defined Networking and simultaneously with university education he spent three years in training and implementation of both traditional and modern networks.

## Areas of Expertise

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- IT implementations
- Project management
- Web and Programming
- R&D and Specialized Translation
- Networking and Virtualization technologies
- Workshop and Seminar conductor

## Educational Background

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- **Amirkabir University of Technology**, BS, Hardware Engineering, November 2012
  - **Thesis:** *Network Digital Image transmission system using microcontroller and receive them from PC*
- **Tarbiat Modares University**, MS, Computer Architecture and Systems, March 2016
  - **Thesis:** *OpenFlow based server load balancing*

## Employment

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- **Andishe Negar**, R&D and Sales Manager, Sep 2014-May 2015
  - HP Servers, Storage and Networking

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- ◻ **National Infrastructure Network (NIN) Infrastructure Development Model Project**, Member of designing team, May 2015-Jan 2016
    - IP Network Trends
    - Monitoring Development and QoS
    - Transport Networks
    - Access and Metropolium Networks

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- ◻ **Workshop Conductor in "Introduction of SDN Architecture"**, ICT Research Institute, Nov 2014
    - Implementing some scenarios using pox controller and HP 3500 Switches
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- ❓ **Workshop Conductor in “Introduction of SDN Architecture”**, Telecommunication Infrastructure Company, Aug 2015
    - Introducing SDN Use Cases in Transport Networks
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- **First Persian SDN Training Website, [SDNCentral.ir](http://SDNCentral.ir)** Co-Founder, Nov 2015
  - Online Courses
  - Providing Persian Texts
  - Consultation
  - Forum

## Teaching

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- **SDN Training**, more than 200 hours, Since May 2016
  - SDN architecture and OpenFlow Concepts
  - Real Implementations using pox, Mininet, Floodlight, ODL and RYU

## Self-Studies

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- POX, RYU and Floodlight Controller Development
- ONOS and ODL Controller Administration and REST Applications
- Open vSwitch and Mininet, MATLAB, OMNET++, OPNET, Mininet, CloudSim
- Java, Python, Frenetic, C# and Fortran, VHDL, Java Script, XML, JSON
- HTML, CSS, PHP, WordPress, Vbulletin
- GNS3 and Packet Tracer, HP Network Simulator
- Cisco and HP Switches Administration
- VMware ESX, NSX
- FreeNAS Storage Operating System
- Ubuntu16.04LTS, Microsoft Windows server 2012
- HPE Synergy Composable Systems
- OpenStack

## Research Areas of Interest

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- Software Defined Networking
  - Load Balancing
  - Traffic Engineering
  - Security
  - Network Virtualization
  - Fault-tolerance
- Network Function Virtualization
- Optical-Transport Networks
- Data Center Networks
- Cloud Computing