

# Hayk Harutyunyan

## Personal Data

**Address:** Armenia, Yerevan  
**Mobile Numbers:** (+374 94) 600 201  
**E-mail:** [hayk.harutyunyan@gmail.com](mailto:hayk.harutyunyan@gmail.com)



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## Work Experience

**Revenue Assurance Senior Specialist** **2010 Aug - Present**  
(K-Telecom CJSC (VIVACELL - MTS))

**Revenue Assurance Specialist** **2010 Apr - 2010 Aug**  
(K-Telecom CJSC (VIVACELL - MTS))

- Developing new data analyses tools (for example, new SQL scripts, functions, procedures, etc.)
- Comparing different data sources to ensure data consistency in the report
- Investigating reasons of data inconsistency
- Developing data analysis applications for automation of the process
- Reporting
- Wrote parser for binary file (the file size was more than 2,5 GB)
- Wrote parser for XML file

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**Software Engineer at “Hitegrity” LLC** **2008 - 2009**

- Created Packet Generation framework for ARP, PCAP, IPv4 and IPv6 protocols that provide universal interface to generate packets of different protocols and test environments
- Developed cross-platform (Windows - Linux) library, partly lib implementation, system specific threads and threads synchronization (mutex, pipes)
- Wrote technical documentations and tests

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## Trainings

**BetConstruct Internship** **2016 Dec**  
Organized by Microsoft Innovation Center (6 week intensive internship)

**Windows phone application development** **2012**  
Organized by Microsoft Innovation Center and mLab ECA regional Mobile Applications Lab

**C# training (Certificate of completion C# training I – II Levels)** **2011**  
Organized by Microsoft innovation Center Armenia, EIF, USAID

**Special course of C/C++** **2008**  
Organized by CQGI MA LTD

**Special courses of Web Technologies in the fields of  
JAVA, JavaScript, My SQL, HTML** **2008**  
Organized by EIF, Sun Microsystems, USAID and Yerevan State University

## **Professional Affiliations**

**SEUA**

**2007-2009**

- Made a research and implementation of Steganographic algorithm about “Steganography in a Spectral Area of the Image”
- Participated in the Seventh International Conference on Computer Science and, Information Technologies

**2009**

**Laboratory at SEUA**

**2006-2008**

- Research and development of “Multi-agent Systems”
- Design and implementation of software tool for special file system of windows
- Implementation of user interface for “Multi-agent Systems” (in QT)

**SEUA**

**2006-2007**

- Made a research and implementation of algorithms for Steganographic systems about “Hiding information in a bmp files by using special algorithms” (Scholastic Allowance in SEUA, Yerevan 2007)

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## **Education**

**Master's Degree in Engineering (GPA 3.96)**

**2007 - 2009**

State Engineering University of Armenia (SEUA)  
Department of Computer Systems and Informatics

**Bachelor's Degree in Engineering (Diploma with Honor)**

**2003 - 2007**

SEUA Department of Computer Systems and Informatics

**School Leaving Certificate**

**2001 - 2003**

College of SEUA

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## **Publication**

**The Steganography in Spectral Area of the Image**

**2009**

Click to edit publication or publisher nameSeventh International Conference on Computer Science and Information Technologies 28 September - 2 October, 2009, Yerevan, Armenia

Click to edit publication descriptionBy this work it was presented the hiding algorithm of the image in the spectral field with the help of Fast Fourier Transform (FFT).

Link: <https://csit.am/2009/proceedings/6PDC/4.pdf>

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## **Skills**

**Programming Languages:**

C#  
C/C++

**Databases:**

MS SQL Server.

**Languages:**

Armenian (native)  
Russian (fluent)  
English (fluent)