

**BIOGRAPHICAL SKETCH OF
PhD. Vahagn Poghosyan**



Date of Birth: **Dec 11 , 1976**

Marital Status: **Married, has a son and two daughters**

Place of Birth: **Armenia**

Nationality: **Armenia**

Business address: **Avan, Tsarav Aghbyur 134/1**

Position Held: **CEO**

Tel.: **055 409 809**

E-mail:

Executive Summary: **Founder of Instigate – one of Armenia’s largest High-Tech incubators. Main technical expertise in**

Education

Degrees	Dates	University
MS, Applied Mathematics	1994 -1999	Yerevan State University
PhD, Computer SCience	2000-2002	Yerevan State University

Career/Employment

Employers	Position	Dates
e-Hayq CJSC	CEO & VP Engineering	2017-present
Real School Foundation	Founder and CEO	2016-present
Leviathan CJSC	Co Founder and technical advisor	2015 -present
Yerevak Technology cjsc	Co founder and technical advisor	2014-present
Instigate Robotics CJSC	Co-founder and technical advisor Co-founder and technical	2013-present
ProximusDA	Co-Founder	2008-present
ProximusDA Munich, Germany	VP, Engineering	2008-2011
Amtokay cjsc of Scinces	CEO	2007-2010
Instigate cjsc	Co-founder and Technical Advisor	2006 -present
Element CXI	SW Engineer	2005 - 2006
Synopsys, USA	Senior R&D Manager	2004 - 2005
Monterey Design Systems, USA	R&D Director	2004 - 2005
Arset, RA	SW Engineer	1999 - 2001
Institute of Geology, NAS, RA	SW engineer	1995 - 1996

Specialization

- **main field:** Microelectronics Design Automation for FPGA
- **other fields:** Embedded Systems and Software development, Industrial Control Automation, Robotics, System Level Design.
- **current research interest:** Innovation in Edutech, combining Education and Startup Incubation to address XXI century challenges in both fields.

Membership of Professional Societies

Member of: Board of Directors of Union of IT Enterprises of Armenia. Board of Directors of Defense Industry Enterprise Union. Board of Alternative Education Institutions association. Innagual member of advisory board of American University of Armenia Collage of Science and Engienering.

Fild of expertise:

e-Hayq cjsc

December 2017 - Present

Yerevan, Armenia

e-government, ERP, document processing, state and enterprise security SW and HW development, networking, mesh & peer-to-peer solutions, next-generation internet: Global Giant Graph, Web 3.0, LinkedData platform development and application for e-government, corporate ERP and social networking solutions with strong emphasis on authentication, privacy, trust-chains, at the same time excluding anonymous public and private communication and attacks.

Real School Foundation:

September 2016 - Present

Yerevan, Armenia

Developing modern college system for XXI century. Accelerated bachelors program based on real projects sponsored by industrial organizations, social startups, IT and high-tech industry. Vision: twenty first century enterprise should combine production, research and internship program to be able to compete in high-tech/creative/disruptive economies.

Leviathan CJSC

January 2015 - Present

Yerevan, Armenia

Peer-to-peer social platform, targeting first of all news and niche music distribution, resilient towards net neutrality attacks and towards power usurpation by the authorities and corporations which are trying to bypass the legal system to enforce censorship, unfair competition, filtering traffic.

Yerevak Technology cjsc

May 2014 - Present Yerevan,

Armenia

Leviathan-based peripheral device development. Secure communication over untrusted networks.

Instigate Robotics CJSC

October 2013 - Present Yerevan,

Armenia

Development of industrial automation systems, UAV's, CS/EE education systems. NairiLab - robotics laboratory based on CNC/3d-printing/laser cutter devices, robotic kits, and unique methodology to facilitate interest in CS/EE education in intermediate schools, professional IT/EE/CS education in high schools, involve universities in developing educational and industrial platforms. UAV-based control system learning kits, facilitating education of PID, and L1 based control systems. UAV-based solutions for industrial automation.

ProximusDA

September 2008 - Present Munich,

Germany

ProximusDA offers parallel computing technology for High Performance Computing, with special focus on EDA (ESL, TLM Modeling, Acceleration of SystemC/TLM simulation using parallel/distributed computing). It includes

distributed computing scheduler and memory manager, which is scalable from mobile multi-CPU systems to high-performance compute clusters.

The technology is based on combining classical methodologies from HW- Design, Distributed Computing, Multi-processor OS scheduling into unique simple, but very generic and powerful methodology.

The solution was built and validated since 2006 by Instigate, a design service

and consulting company with unique experience in design, modeling, verification and validation of parallel, heterogeneous, reconfigurable systems with distributed memory architectures, ranging from SoC to heterogeneous compute clusters combining multi-core/multi-node NUMA machines, multiple GPGPU devices from NVIDIA and AMD/ATI, as well as FPGA boards and other compute resources/platforms, and providing single design environment and abstraction layer for all these systems.

Instigate Robotics CJSC

October 2013 - Present Yerevan, Armenia

Development of industrial automation systems, UAV's, CS/EE education systems.

NairiLab - robotics laboratory based on CNC/3d-printing/laser cutter devices, robotic kits, and unique methodology to facilitate interest in CS/EE education in intermediate schools, professional IT/EE/CS education in high schools, involve universities in developing educational and industrial platforms.

UAV-based control system learning kits, facilitating education of PID, and L1 based control systems.

UAV-based solutions for industrial automation.

ProximusDA

GM of the subsidiary in Armenia

November 2011 - Present

Yerevan, Armenia

Design center of ProximusDA GmbH

Software Acceleration design services:

- parallel programming for desktop machines/clusters using specifics of NUMA architecture and special libraries for parallel/distributed programming

- acceleration of applications using GPGPU technologies from NVIDIA and AMD/ATI: CUDA, CAL/Brooks+, OpenCL

System Level Design (ESL) services.

Modeling digital systems (SystemC/TLM, C/C++, SystemVerilog).

Development of simulators and TLM for reconfigurable devices.

Programming/configuration of massive parallel reconfigurable devices.

Development of SW in GNU/Linux, Mac OSX and Windows.

SW application framework for rapid development of EDA applications. QA of EDA tools (ESL, front-end, back-end).

Code maintenance, integration, support.

R&D Manager

2003 - 2003

Development of EDA applications (physical design / design planning).

Management of the remote R&D team located in the Armenian design center of the company.

2001 - 2003

Development and maintenance of EDA algorithms: layout compaction,

legalization, floor-planning.

Arset

1999 - 2001

EDA back-end: floorplan legalization, compaction and standard cell partitioning & placement tools.

INET Global, Yerevan branch

1998 - 1999

Development of tele-com protocol description tool (SS7)

Armsoft

1996 - 1997

Accounting automation for small, medium and large enterprises: R&D, Applications Engineering, Customer Support.

Institute of Geology, NAS, RA

1995 - 1996

Mapping, plotting SW.

Selective Publications:

Books

Book Chapters

Organizer of the following conferences