

## Aharon Kamo Aharonyan

11 Lvovyan street, apt. 5

Yerevan, 0056, Armenia

Tel. (+37491)75 76 96, (+37455)75 76 38

E-mail: [aharaharonyan@gmail.com](mailto:aharaharonyan@gmail.com)

Date of Birth: 12.07.1985

Marital status: Married



**Specialty:** Microwave engineering and equipment

**Academic degree:** Ph.D of Technical Sciences (Ph.D) from the State Engineering University of Armenia, Yerevan

**Titles:** Associate Professor at State Engineering University of Armenia (since 2015, University Certificate)

### **Education:**

**Topic of Ph.D thesis:** The system projection and investigation of optical signals equipment's for the super high frequency range

**9 December 2011** Ph.D of Technical Sciences (Candidate of technical sciences)

**2008-2011:** Ph.D. student, Radio equipment's Chair, State Engineering University of Armenia, Yerevan

**2006-2008:** Master's degree in Engineering & Communication Means (Telecommunication), State Engineering University of Armenia, Yerevan

**2002 - 2006:** Bachelor's degree in Engineering of Consumer Radio Electronic devices, State Engineering University of Armenia, Yerevan

### **Working experience:**

**2024– present time:** Director of Institute of Engineering and Physics, in the Russian-Armenian University

**2019– 2024** Head of “Telecommunications” department in the Russian-Armenian University

**2021– present time:** Head of microwave laboratory at the "Yerevan Telecommunication Research Institute" CJSC.

**2013– present time:** Associate Professor, Chair of “Radio Equipment” in the National Polytechnic University of Armenia

**2016– 2019:** Associate Professor, Chair of “Radio equipment's” in the Military Aviation University Armenia

**2013 – 2021:** RF leading specialist at the "Yerevan Telecommunication Research Institute" CJSC

**2012–2013:** Engineer at department of microchip memory design in the Synopsys Armenia CJSC

2011 – 2012: RF engineer at the "Yerevan Telecommunication Research Institute" CJSC

### **Certificates and participated trainings**

- 2015:** Certificate the best report of forum “Information technology in the world of communications” Moscow, Russian Federation.
- 2015:** Certificate by ministry of commerce People’s Republic of China. “2015 Seminar on Science and Technology innovation for developing countries”. Organized by Fujian foreign trade and economic cooperation officials training center from August 6<sup>th</sup> 2015 to August 26<sup>th</sup> 2015 in Fuzhou, the People’s Republic of China.
- 2010:** Conducted by Synopsys Armenia Educational Department. This training course includes “IC Design Introduction”, “Analog and mixed signal IC design”, “Digital IC design” and Synopsys own tools for design.
- 2008:** Recipient of special “Friendship” scholarship founded by Russian-Armenian “Development of education, science and health” charity found, awarded for encouraging future research and investigation in Radio Communication science.

### **List of recent scientific works**

1. A.K. Aharonyan/S.B. Makarov, M.V. Markosyan, V.H. Avetisyan, A.K. Aharonyan, H.G. Martirosyan, R.A. Davtyan. Armenian Journal of Physics, 2018, 11, 209-213, - To problem of designing of the landing radars.
2. M.V. Markosyan, V.H. Avetisyan, A.K. Aharonyan, R.A. Davtyan. Microwave and THz Technologies and Applications - The microstrip phased array antenna of centimeter waves range. Armenian Journal of Physics, 2018, vol. 11, issue 4, pp.204-208
3. A.K. Aharonyan/M.V. Markosyan, A.A. Martirosyan, V.H. Avetisyan. //Journal of Contemporary Physics (Armenian Academy of Sciences), 2018, 53, No. 3, 194–201, - Investigation of the circular waveguide radiating slotted structures using polarization degeneration of the main mode wave.
4. A.K. Aharonyan/V.H. Avetisyan, R.A. Davtyan, M.V. Markosyan, A.A. Martirosyan. / Radiation and Scattering of Electromagnetic waves, RSEMW 2019 - Multitier Omnidirectional Antenna on The Circular Waveguide with The Paired Slots on The Tiers.
5. A.K. Агаронян/А.А. Шмавонян, А.И. Тимотин. Определене параметров фазированной антенной пешетки с помощью программирования. - ИЗВЕСТИЯ Национальной Академии Наук Армении и Национального Политехнического Университета Армении, LXXIV, 40-48, 2021.
6. С.Б. Макаров Р.А. Давтян, А.К. Агаронян, М.В. Маркосян, В.Г. Аветисян, С.В. Завьялов, С.В. Томашевич// Подвижная квазиоптическая линия передачи сигнала в составе сканера для планарных измерений полей диапазона миллиметровых волн. "Издательское предприятие редакции журнала "радиотехника" ISSN: 0033-8486, том.85, No.11, стр. 107-116, 2021г.
7. M. Grigoryan; E. Sivolenko; A. Manasyan; A. Aharonya. The comparison of LFM and NLFM signals using higher ordered statistics. International Conference on Microwave & THz Technologies and Optoelectronics IRPhE, September 27-29, 2022
8. Ruben Davtyan, V. Avetisyan, S. Eyrarnjyan, G. Sugyan, T. Manukyan, E. Aramyan. Design and Preparation of the System for Detection of UAV Radiofrequency Signal's Radiation Direction in the 1-6 GHz Frequency Range. International Conference on Microwave & THz Technologies and Optoelectronics IRPhE, September 27-29, 2022.
9. S.B. Makarov, S.V. Zavjalov, S.V. Volvenk, V.H. Avetisyan. Youth project Space- $\pi$  using small spacecraft for research of near-Earth space and remote sensing of the earth. Communications of the Byurakan Astrophysical Observatory (ComBAO), Volume 69, pp. 295-298, December 2022

## **List of patents**

1. A.K. Aharonyan/V.H. Avetisyan, M.V. Markosyan, A.A. Hovhanisyan, A.A. Sargsyan - The device of land antenna parameters measuring by on-site flying method, 2014;
2. A.K. Aharonyan/M.V. Markosyan, V.H. Avetisyan, H.G. Martirosyan, R.A. Davtyan - Landing radar,2016;
3. A.K. Aharonyan/M.V. Markosyan, H.G. Martirosyan, V.H. Avetisyan - Omni Directional slot antenna,2018.

## **Supervision of scientific works**

1. Design, manufacturing and testing of unmanned aerial vehicle (UAV) RF signals' radiation direction and location finding system (2021-2023).
2. Design, manufacture and testing of radio frequency jamming systems for unmanned aerial vehicles (UAVs) with radio frequency radiation after direction finding(2023- present time).

## **Computer skills**

***Programs:*** MS Windows, MS Office, Matlab 6.0, Mathematica 5.0, AutoCAD, CADFEKO, COMSOL Multiphysics, AWR Design Environment10,

## **Languages:**

***Armenian:*** fluently  
***Russian:*** fluently  
***English:*** fluently