Victor Rabinovich is an inventor, scientist, engineer, and professor in the field of antenna technology, particularly phased and adaptive antenna arrays.

**Date of Birth:**

1946, Moscow, Russia.

**Education:**

Moscow Institute of Physics and Technology (1964-1970), MSc in Electronic Engineering. He was awarded a Ph.D. in the field of electromagnetics and antennas.

**Career Stages**

1. For over two decades, from 1967 to 1990, he worked in the Research and Development department of a prominent Moscow-based scientific-industrial corporation. During that time, he actively participated in the development of the first (in USSR) multielement passive type phased antenna array with electronically scanned beam. and smart adaptive antenna arrays. He achieved the rank of Senior Research Associate and taught the fundamentals of antenna array operations to students of the Moscow Institute of Physics and Technology. He made presentations at all-union antenna conferences, including the A.S. Popov scientific session. Over his time at the company, he obtained about 30 patents (author's certificates). During his work on the antenna array development project, he was repeatedly awarded the status of the best employee of the company and the best company inventor. The results of published articles, as well as numerous patents contributed to the improvement of its characteristics.
2. Since 1995, he has been working in North America, specializing in antenna design for automotive applications. He developed keyless entry antennas with a range of over 100 meters for Chrysler and GM. The antennas were implemented into mass production. During this time, he also developed a microstrip antenna for satellite radio applications and printed-on-glass car antennas for AM and FM radio applications. All antennas are protected by more than 10 patents, as well as by 7 articles in scientific and technical journals such as Microwave Letters and IEEE Antennas and Propagation. During his tenure, two books were prepared and published: 'Automotive Antenna Design and Applications' and 'Antenna Arrays and Automotive Applications'.
3. In his retirement, Victor Rabinovich has been teaching children mathematics and the basics of Python programming. He created a website for children's programming education, **pythonkidsgo.ca**, which features over 60 practical Python projects using the Pygame library, as well as projects in Scratch. He has published books for children: "School Math Problems with Real-Life Applications," 2015, and "Python Lessons for Kids: Animation Projects with Turtle Graphics," 2021. Additionally, he manages a Facebook page titled "I like Scratch and Python coding."

**Scientifical and technical papers, published in open sources:**

The sources cited below can be found at the following address:

<https://github.com/victenna/Papers-text>

1. Statistical evaluation of some parameters of antenna arrays with electronic beam control, Journal of Radio Engineering and Electronics,1971,12, pp.2188-2192 (in Russian version).
2. Radiation pattern of an antenna array with a given number of faulty elements, Journal of Radio Engineering and Electronics,1973, 4, pp.713-716 (in Russian version).
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4. Reconstruction of the amplitude and phase distribution of the field in the antenna array aperture using the modulation method, Journal of Radio Engineering and Electronics,1976, 3, pp.616-620 (in Russian version).
5. Simplified algorithms of radiation pattern design for digital antenna array, Telecommunications and Radio Engineering, 1991, pp.63-66 (in Russian version)
6. Digital antenna array with non-identical parameters of receiving elements, Аntenna-waveguide technology and radio wave propagation,1990,7, pp.63-66 (Russian version)
7. Evaluation of the array field distribution based on the spectral characteristics of the elements, Antennas magazine,1990, 3, 23-28 (Russian version)
8. Small printed meander symmetrical and asymmetrical antenna performances, including the RF cable effect, in the 315 MHz frequency band, Microwave and optical technology letters, 2006, 9, pp. 1828-1833.
9. Compact Planar Antennas for Short-Range Wireless Automotive Communication, IEEE Transactions on vehicular technology, 2006, 4, pp. 1425-1435.
10. An active receiving antenna for short-range wireless automotive communication, Microwave and optical technology letters, 2004, 4, pp. 293-297.
11. A signal and noise-measurement procedure for an antenna/RF receiver combination I short-range automotive communication system, 2005, 2, pp.116-119.
12. L-band active receiving antenna for automotive applications, Microwave and optical technology letters, 2003, 4, pp. 319-323.
13. Direction finding system for automotive applications using small phased antenna array, Microwave and optical technology letters, 2011, 10, pp. 2441-2446
14. Compact Diversity Antenna System for Remote Control Automotive Applications, IEEE Transactions on vehicular technology, 2005, 5, pp. 379-382.
15. Three port multifunction printed antenna system for automotive application, 2010, Antennas propagation society international symposium IEEE.

**Patents, published in open sources:**

The sources cited below can be found at the following address:

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1. Device for measuring the amplitude-phase distribution of the field of a phased antenna array, patent #SU1552132A1 (Russian,1989)
2. Method for measuring the parameters of a phased antenna array, patent # SU1515125A1 (Russian,1987)
3. Device for measuring the parameters of a phased antenna array, patent # SU1318941A1(Russian,1985)
4. Symmetrical printed meander dipole antenna, CA2699166C, publication date 2013-03-12.
5. Antenna system for remote control automotive application, CA2692360, publication date 2103-05-14
6. Antenna and splitter for receiving radio and remote keyless entry signals, US08274440B2, publication date 2012-09-25
7. GPS, GSM and wireless LAN antenna for vehicle applications, US12/435.750, publication date 2012-01-17
8. Antenna system for remote control automotive application, [US20060170610A1](https://patents.google.com/patent/US20060170610A1/en), publication date 2006-08-03
9. System and method for activating electromechanically systems using flexible intelligent radio frequency modules, CA2727846C, publication date 2009-06-05
10. System and method for activating electromechanically systems using flexible intelligent radio frequency modules, EP2300272B1, publication date 2023-01-04
11. LIN bus remote control system, US 8,334,758 B2, publication date 2012-18-12