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## Professional Experience

- 2018 - Present    **Center for Innovation Promotion and Research**, Yerevan, Armenia  
*Founder & Owner*, Academic research and promotion of innovation.
- 2017 - Present    **Commerc Consulting**, Yerevan, Armenia  
*Co-Founder*, business and legal consulting for large and small businesses.
- 2015 – Present    **American University of Armenia**, Yerevan, Armenia  
*Adjunct Faculty*, School of Manoogian Simone College of Business & Economics,
- 2015 – Present    **Yerevan State University**, Yerevan Armenia  
*Adjunct Faculty*, School of Journalism & Public Relations.
- 2006–2014        **NASA**, Aerospace Corporation, Air Force, CA, USA
- 1998–2005        **NASA**, California Institute of Technology, Jet Propulsion Laboratory, CA, USA
- 1995–1997        **Rensselaer Polytechnic Institute**, Biology Department, Materials Testing Lab, New York, NY, USA
- 1993–1995        **Intermagnetics General Corporation**, New York, NY, USA
- 1989–1992        **Cryogenics Consultants Ltd**, London, UK.

## Management and Leadership Positions

- 2014              PI, initiated and managed proposal concept “CubeSat/ ISS mission”, Aerospace, USA.
- 2010              PI, developed and led “First Cost Estimation Methodology for Very Small Satellites” NASA, USA.
- 2000–2014        **NASA**, Team Lead, Space Missions Proposal Development, Proposal Reviewer and Evaluator for Small Business Innovation Research (SBIR) and Small Technology Transfer Research (STTR) programs (NASA, DOD, NSF/NASA, and DOE) Agencies, USA.
- 2003–2005        **NASA**, Proposal Manager, (MM\$) Space Technology Development proposals to Mars & Moon, USA.
- 2000–2005        **NASA**, Lead Telecom subsystem Engineer for 50+ NASA Space Missions programs, JPL, USA.
- 1995-1997        Rensselaer Polytechnic Institute Materials Laboratory Manager, Biology Depts., Troy, NY, USA.

## Academic Positions

- 2014 – 2016        Adjunct Faculty, **California State University of Los Angeles** (CSULA), School of Physics, CA, USA.
- 2006 – 2008        Adjunct Faculty, **Woodbury University**, School of Architecture, LA, CA, USA.
- 1995 – 1997        Adjunct Faculty, **Rensselaer Polytechnic Institute** (RPI), Biology Depts., Troy, NY, USA.
- 1992 – 1993        Adjunct Faculty, **Kensington University**, School of Engineering, Glendale, CA, USA.
- 1986 – 1989        Post-Doctoral Research Fellow, **Leeds University**, Physics Department. Leeds, UK.
- 1984 – 1986        Post-Doctoral Research Scientist, Applied Physics Dept., **Hull University**, and Materials Research Center, **Birmingham University**, UK.
- 1980 – 1984        Assistant Lecturer and Research Graduate Student, **London University**, Imperial College, UK.
- 1978 – 1979        Assistant Lecturer, **University of Basra**, College of Science, Physics Dept., Basra, IRAQ.

## Academic Master's Thesis Supervision

- 2018            **AUA**, Master of Science in Strategic Management program, "Startup ecosystem in Armenia".  
2018            **YSU**, Masters in PR and Media Journalism, "Innovation in Armenian Journalism".

## Academic Courses Developed and Delivered

- Jan'17 – Present **Innovation in Journalism**, graduate (Masters) course- YSU School of Journalism, Armenia.  
Sep'15 – Present **Techniques of Creative Thinking**, graduate (Masters) course- YSU School of Journalism, Armenia.  
Sep'15 – Present **Innovation & Entrepreneurship**, undergraduate core course- AUA School of Manoogian Simone College of Business & Economics, Armenia.  
Jan'15–May'15 **Creativity & Technological Innovation**, undergraduate course, AUA School of E&S, Armenia.  
Sep'14–Sep'16 **Physics for Biologists**, undergraduate course, Physics Dept., CSULA, CA, USA.  
Jan'06–Aug'08 **CubeSat Systems Engineering and Cost Estimation**, NASA professional training course, CA, USA.  
Jan'03–May'04 **Creativity and Physics**, undergraduate course- School of Architecture, Woodbury Univ., CA, USA.  
Jan'87–Dec'89 **Physics of Magnetism**, undergraduate course- Physics Dept., Leeds University, Leeds (UK).

## Business Startup and Venture Development Positions

- 2016 - Present    Co-Founder, **CubeSat Development Team in the Armenia "Youth Aerospace Society (AYAS) ARMENIA"** promoting development of Very Small Satellite, Armenia.  
2010 - Present    Board Member for Armenia branch, past Secretary **ARPA (Analysis Research & Planning for Armenia) Institute**, Los Angeles, USA.  
1999 – Present    Co-Founder - **Vedi's Friends**, non-profit charitable organization operating in Vedi (RA).  
1998 – Present    Founder & Owner, **Mary & Associates**, Business Consulting firm, operating in Los Angeles, USA.  
2008-2014        System Lead for **Simulation of Space Systems Magnetic Cleanliness** program NASA, USA.  
2000–2015        Member of **SCORE "Entrepreneurs Counselors to America's Small Business"**, USA.  
1995–1997        Lead for due diligence of Venture Capitals, **New York State Technology Investment Fund**, USA.

## Education

- MBA            **Rensselaer Polytechnic Institute**, NY, USA. **Innovation Management & Entrepreneurship** (1997)  
PhD            **London University, Imperial College**, London, UK. **Physics of Magnetic Materials** (1984)  
MSc            **University of Basra**, College of Science, Physics Dept., Basra, IRAQ. **Physics** (1978)  
BSc            **University of Basra**, College of Science, Physics Dept., Basra, IRAQ. **Physics** (1976)

## Certifications

**California Institute of Technology (CALTECH) Industrial Relations Center**, USA

"Technology Planning & Management", "Project Cost Estimating and Economic Evaluation", "Systems Engineering".

**NASA/Jet Propulsion Laboratory/ CALTECH, and The Aerospace Institute**, USA

Systems Engineering Requirements", "Introduction to Systems Architecting", "Proposal Preparation".

**Rensselaer Polytechnic Institute (RPI)**, New York, USA

"Design, Development & Marketing", "Venture Valuation", "Product Development", "Principles of Entrepreneurship".

## Awards and Honors

### Armenia

- 2018 **Certificate of Appreciation** for teaching “Creative Thinking in Public Relations”, PR Association of Armenia, Nov’18, May’18, Oct’17, Apr’17, Oct’16 and May’15
- 2016 **Certificate of Appreciation** for presenting a paper on “Creativity and Collaboration in a Group Learning Activity”, 11<sup>th</sup> International Silk Road Conference.

### USA

- 2014 **The Aerospace IR&D Award** for Concept Development of the 1<sup>st</sup> Propulsive Picosatellite Operation and the International Space Station (ISS).
- 2012 **The Aerospace/ NASA Group Achievement Award** for JUNO Space Mission Technical Analysis.
- 2011 & 2004 **NASA Certificate of Appreciation** for Valuable Contribution and Outstanding Support to the NASA Advanced Component Technologies (ACT) Program and the Earth Science Technology Office.
- 2009 – 2012 **The Aerospace IR&D Award** for development of the 1<sup>st</sup> Picosatellite Cost Estimation Model
- 2009 & 2008 **Aerospace SPOT Award** for Contribution to JUNO Space Mission Success.
- 2005 **NASA Certificate** for contribution to 50+ Space Mission Design Development.
- 2001 **NASA Certificate of Recognition** for New Technology Development on “Magnetic Thin-Film Application for Actuation of MEMS Fabricated Parabolic Mirror”.
- 2000 **NASA/ JPL NOVA Award** for Technology Innovation on CloudSat Space Mission.
- 1999 **NASA Certificate of Recognition** for New Technology Development “Conductor Design to Generate Electricity from Space Magnetic Field”.
- 1999 & 1998 **JPL Directors R&D Award** for Development of Innovative Concepts for Miniaturized Sensors.
- 1998 **Two NASA Tech Certificates of Recognitions** for Creative Technical Innovations at NASA/JPL, Caltech.
- 1995 – 1997 **Herman Family Fellowship for Women Entrepreneurs**, Rensselaer Polytechnic Institute, Troy, NY.

### England

- 1981 – 1984 **Essefian Foundation**, Graduate Research Studentship, London, UK.
- 1984 – 1986 **UK Admiralty** Defense Department Research Grant, UK.

### Iraq

- 1978 **University President Award** for graduating with Honor and being the 1<sup>st</sup> Graduate Student with Masters' Degree in Physics from Basra University, Basra.
- 1977 – 1978 **Graduate Research Studentship**, Basra University, College of Science, Basra.

## Professional Affiliations

- 2012– Member, IEEE Society
- 2008– Member, International CubeSats Working Group
- 2008–2012 Member, International Cost Estimating and Analysis Association (ICEAA)
- 1999– Member, American Physics Society (APS)
- 1993– Member, Materials research Society (MRS)

## Other Personal Information

- Languages: Armenian, English, Arabic (fluent- read, write and speak)
- Hobbies: Join "Think Tank" Innovative Thinkers' Groups, Angel Investment
- Interests: Global travel, music, reading.
- Residency: Permanent Resident of Republic of Armenia since Jan 2015