

Curriculum Vitae

ARMEN ASRYAN

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Armen specializes in Climate and Environmental Security, DRR, Resilience, Earth Observation/RS/GIS and Space4SDGs.

He is a PhD candidate in Climate Change and Sustainable Development Policies at the University of Lisbon (thesis - *Navigating Climate Security: Cartographic analysis and visualization for impactful narratives*) and holds an MSc with distinction in Applied Geographical Information Systems (Kingston University, UK). He also completed executive education in Innovations in governance (Harvard University, USA), business leadership (University of Cambridge, UK), and holds other qualifications in climate change, disaster risk reduction and environment.

Armen brings in 20+ years of overall professional experience most of which gained in international technical assistance projects funded and implemented by multilateral donors (EU, WB, UNDP, UNIDO, ADB, SDC, CIDA, OSCE, USAID, GIZ), private firms and NGOs in (10+) developing (Central Asia, South Caucasus) and developed countries. His experience includes project design and management, programming in the field of development assistance, feasibility studies, research, capacity building, projects evaluation, geographic analysis, mapping and visualization. Thematically Armen's professional experience covers climate change, environment (forests, biodiversity, water, agriculture), natural & anthropogenic hazards, public health, tourism and education.

Armen has been Party Delegate to the Convention, at UNFCCC (incl. COP28), COP27, COP26 and COP25 advising and providing technical expertise to the national delegation on climate security, DRR, adaptation for development, climate change science, earth observation, science diplomacy and communication. Most recently, he served as a Policy Advisor to the Climate, Environment and Resilience Programme of UNDP Armenia supporting the Senior Management on all aspects of the country office programme in the area of Environmental and Climate policy, including conservation and sustainable use of natural resources, integrated landscape management, green economy, climate smart agriculture and agroforestry, environment and health, climate and disaster resilient development. Supporting programme strategic planning, resource mobilization, identification of new programme directions. Armen is also a member of the Climate Change Working Group of Geneva-based and WMO affiliated Group on Earth Observation (Subgroup on Engagement with UNFCCC and IPCC) which is tasked to develop and implement a comprehensive GEO climate change action strategy to advance the use of EO in support of climate adaptation and mitigation.

Specializing	Climate and Environmental Security, Disaster Risk Reduction, Resilience, Sust. Development
Experience	20+ years, including conflict & post-conflict environments.
Skills & Expertise	Projects design & management, development assistance programming, feasibility studies, policy advice, capacity building, evaluation, cartography, GIS-analysis. <i>Themes:</i> forests, biodiversity, water, urban, agriculture, natural & anthropogenic hazards, public health.
Clients	UNDP, WB, EU, OSCE, ADB, USAID, CIDA, GIZ, SDC, UNIDO, academia, non-profits, governments, private sector.
Country experience	Afghanistan, Armenia, Canada, Cuba, Georgia, Kazakhstan, Kyrgyzstan, Pakistan, Philippines, Poland, Spain, Tajikistan, Thailand, Turkmenistan, USA, Uzbekistan.
Languages	English, Russian, Armenian (<i>fluent</i>); Spanish (<i>~B2</i>).
Membership	Royal Geographical Society (UK)

Education

2022- Portugal	University of Lisbon, PhD candidate in <i>Climate Change & Sustainable Development Policies</i>
2008, USA	Harvard University, JFK School of Gov., Executive education: <i>Innovations in Governance</i> .
2006, UK	University of Cambridge, JBS, Executive education: <i>Business Executive & Leadership</i> .
2005, UK	Kingston University, Master of Science (hon.) in <i>Applied GIS</i> ; major: Land & Resource Info. Sys.
2001, Armenia	University of Management & IT, Bachelor's in <i>Management Information Systems</i> .

Other trainings

2023, online	UN CC:e-learn, <i>Las ciudades y el cambio climático</i> (Cities and Climate Change)
2020, online	UNFCCC/UNSSC, <i>The Paris Agreement on Climate Change as a Development Agenda</i>
2019, Norway	Uni. of Bergen Summer Research School, <i>Science Diplomacy: Ocean, Climate, Society</i> .
2017, Hungary	CEU/UNDP, <i>Bridging ICTs and the Environment: Innovations in DRR</i> .
2015, Thailand	Asian Institute of Technology, <i>Applying Space-Based Technology & ICT for DRR</i> .
2011, Netherl.	ITC, <i>Multi-Hazard Risk Assessment with GIS & remote sensing</i> .
2010, UK	APMG-UK, <i>PRINCE2 Project Management Certification</i> (foundation level).
2005, Finland	University of Jyväskylä, <i>Managing & forecasting IT innovations</i> .
2004, S. Korea	Korea Information Strategy Development Institute, <i>Approaches to e-Government</i> .
2022	Defensive driving practical and theoretical course (designed and delivered for UN Armenia).
2010/2021	UN Dept. of Safety and Security, Certificate in BSAFE (<i>Basic Security In The Field II</i>)
2010/2022	Red Cross Society, certified <i>First Aid</i> provider.

Professional Experience

UNFCCC / Ministry of Environment of Armenia, 2019 - 2023

Party Delegate to the Convention, at UNFCCC **COP28** (2023, Dubai), **COP27**, (2022, Sharm El Sheikh), **COP26**, (2021, Glasgow), **COP25**, (2019, Madrid). Advising and providing technical expertise to the national delegation on matters related to climate security, disaster risk reduction, adaptation 4 development, climate change science, earth observation, science diplomacy and communication.

UNDP (Armenia), Nov, 2021 - June, 2022

Policy Advisor to the Climate, Environment and Resilience Programme of UNDP. Advising Senior Management on all aspects of the country office programme in the area of Environmental and Climate policy, including conservation and sustainable use of natural resources, integrated landscape management, green economy, climate smart agriculture and agroforestry, environment and health, climate and disaster resilient development. Supporting programme strategic planning, resource mobilisation (contributed to 2mln project funds mobilisation), identification of new programme directions.

Women in Climate and Energy NGO (Armenia), 2021

Team Leader for “Land Cover and Anthropogenic Pressure Mapping for Lake Sevan basin” as part of the EU4Sevan programme funded by GIZ GmbH.

Group on Earth Observations / Climate Change Working Group, (2020 - present)

Member of the Climate Change Working Group (CC-WG), deputy co-chair of the Subgroup on Engagement with UNFCCC & IPCC tasked to develop and implement a comprehensive climate change action strategy to advance the use of Earth observations in support of climate adaptation and mitigation.

adelphi research gemeinnützige GmbH / OSCE, (2021), intermittent inputs, Armenia

Expert on Climate Change and Security – Providing expert support for “Climate Change and Security Workshops in the South Caucasus” project including expert input and support for the bilateral consultation process between Armenia and Georgia (part of "Strengthening Responses to Security Risks from Climate Change in South-Eastern Europe, Eastern Europe, The South Caucasus and Central Asia" OSCE project).

Regional Environmental Centre for Caucasus (2020-2021), (intermittent inputs), Armenia

Smart Environmental Monitoring Expert – EU project on “Joint Monitoring for Environmental Protection in BSB countries” is aimed at solving common problems of nature parks and protected areas in the Black Sea Basin [role involves GIS, Earth Observation, Aerial photography, UAVs]. Member of the technical working group “Upscaling Global Forest Watch in Caucasus Region” regional project funded by the GEF. The project aims to enable improved management of forests and conservation of biodiversity by supporting sustainable land-use management and forest landscape restoration, planning and implementation, and increasing capacity of key actors and institutions in informed decision-making.

ACTED (2020), Armenia

GIS/Database officer – Joined REACH (joint initiative of IMPACT Initiatives, ACTED and the United Nations Operational Satellite Applications Programme (UNOSAT) humanitarian initiative providing GIS and data management services for multi-sectoral needs assessment of the displaced population (Armenia-Azerbaijan war, 2020) to feed aid response and decision-making (UN Information Management Working Group) with reliable information on the humanitarian situation of crisis-affected population.

United Nations Development Programme (UNDP NY), (via ADWISE) (intermittent inputs), 2020

Verification expert - verification of the implementation of the HCFC phase-out management plan for Armenia. Verification reporting on the consumption of substances in Annex C Group I of the Montreal Protocol (HCFCs) contained in the Agreement between Armenia and the MLF Executive Committee to implement Stage 2 of HPMP. Assessing the progress of the implementation of Stage 2 of the HPMP to date in compliance with the Agreement between the Gov. of Armenia and the Executive Committee.

STANTEC (Belgium), (intermittent inputs), 2019-2020

Evaluation expert - Evaluation of Pilot Regional Development Programme (PRDP) contracted by EU delegation to Armenia. Actions evaluated include: Support to the Ministry of Territorial Administration and Infrastructure for Preparation of Actions in Regional Development (TA); PRDP Grant Scheme projects; EU4Regions: Support to Regional Development Policy in Armenia (TA).

United Nations Development Programme (UNDP Armenia), February-April, 2020

GIS expert – “Placemaking: Urban co-design as a catalyst for change” project.

Aires Development Foundation / Women in Climate and Energy NGO (Armenia), 2019

Project co-leader, climate change expert – Designed and implemented EcoQuest climate change awareness, communication and social innovation project aimed to identify and gauge perceptions on pressing environmental issues through the lens of local communities, with specific focus on CSOs, women, youth and elders.

Aires Development Foundation / UNDP-GEF SGP (Armenia), (intermittent inputs), 2017-2019

Earth Observation expert / project coordination - “AirAid: Aerial Observation and Environmental Crowdmapping Platform”, project funded by Global Environmental Facility / UNDP. The project improves environmental governance through the development of capacities of Civil Society Organizations and Government in environmental conservation and management using unmanned aerial vehicles (UAV), and Ushahidi crowd-sourcing platform (desktop, mobile) reporting, mapping and visualisation.

Deutsche Gesellschaft für Internationale Zusammenarbeit GIZ GmbH (Armenia), May – Sept, 2019

Consultant for Feasibility Study on developing Pasture and natural fodder areas Information Management System (PIMS) for management of natural resources and safeguarding of ecosystem services for sustainable rural development in the South Caucasus (ECOserve) programme and within the wider framework of agricultural land management information system in Armenia

United Nations Development Programme (UNDP Armenia), December, 2018

Agricultural Data Collection and Analysis expert supporting UN Country office with the development of mechanism for remote sensing based agricultural data collection and crop growth monitoring system. Researching the Armenian Agriculture data ecosystem, assessment of national capacities on application of remote sensing technologies in agriculture. Advising on methodologies/technologies for real time monitoring for yield forecasting and estimation applicable for Armenia.

INFRAS / Swiss Development and Cooperation (SDC), (intermittent inputs), July-August, 2018

Co-lead-author for Thematic Input Papers for SDC’s Regional Seminar: “Managing DRR and Water under Climate Change in Central Asia and the Caucasus”. TIP2 on ‘Actors, approaches and cooperation related to water management and natural hazards under climate change in Central Asia and the Caucasus’; TIP3 on ‘Pathways to sustainable solutions to manage water and reduce disaster risks under climate change in Central Asia and the Caucasus’. The papers will provide scientific evidence to increase the knowledge and stimulate debates among development practitioners, identify entry points and help formulate policy recommendations in the field of DRR, water management and climate change.

Organization for Security and Cooperation in Europe (OSCE), (intermittent inputs), 2017-2018

GIS Expert in “Inventory and Assessment of Hazardous Waste Hotspots in Armenia and Georgia” project. Developing GIS-compatible database incorporating geographic, environmental and chemical-related

characteristics of selected hazardous waste sites in Armenia as an input for further risk assessment study. Reviewing of the draft report.

Asian Institute of Technology (Thailand), Armenia, (intermittent inputs), 2015 – 2017

Country Team Leader & Digital Mapping Specialist – ADB funded Regional Capacity Development Technical Assistance (R-CDTA) - Applying Space Based Technology (SBT) and ICT to Strengthen Disaster Resilience (Japan Fund for Poverty Reduction). Covering Armenia, Bangladesh, Fiji, Philippines and aiming to improve local capacity to collect and share reliable and timely disaster-related data using SBT and ICT at a local government/community level; Supported the development of methodology and the ICT tools; preparation of strategy and policy guidelines for use of SBT and ICT for DRM; conducted training for local communities on OSM based mapping; Developed OSM, hazard, risk, evacuation maps.

Helvetas Swiss Intercooperation/SDC, Tajikistan, (intermittent inputs) 2016 - 2017

International Consultant/GIS & DB expert - Designed SyrDarya River Basin GIS and database system for water resources management and provided expert assistance in developing the system and building needed capacities for its operation. Analysed the current situation and future needs (River Basin Organizations, River Basin Water Plan, Basin Water Information System, Water Sector Reform Programme); Delivered GIS training (ArcGIS, QGIS, OSM) covering complete cycle from works planning, data collection, processing, input, spatial analysis relevant to the needs of the basin planning process. Providing regular coaching and technical support, ensuring that the system and needed capacities are in place and the work on developing maps and DBs is progressing according to the plan.

Organization for Security and Cooperation in Europe (OSCE), (intermittent inputs), 2016

International Expert / External Evaluator on “Natural Hazards and Climate Change Vulnerability Mapping in Pyanj and SyrDarya river basins of Tajikistan”. Reviewed the data provided by 5 national experts incl. analogue and digitized maps, satellite images. Checked the consistency, scientific rigor and clarity of vulnerability maps produced for debris flows, snow avalanches, glacier dynamics, seismic exposure, drought risks and impacts. Final reporting reviewing the nature, causes, contributing factors, seasonality and issues related to natural hazards and the effects of climate change in the study areas.

World Bank / FVWRMP PMU, Tajikistan, (intermittent inputs) 2015 – 2016

International Consultant/Technical Advisor – GIS Mapping. Assisted the PMU (Ferghana Valley Water Resources Management Project Second Public Employment for Sustainable Agriculture and Water Management Project) in the development of the inventory of the irrigation systems and the GIS database and information system for the Pilot Basin of Lower Kofarnihon. Developed Terms of Reference for the inventory of the irrigation system (GIS, DB); guided the development of the methodology for the implementation of the inventory DB; monitored and reported the progress of the works.

United Nations Development Programme, Tajikistan, Nov. – Dec.2014

International Consultant - Assisted UNDP to select best qualified local telecom provider following “best value for money” principle and UNDP ICT policy. Assessed telecom needs for country and 5 area offices. Analysed local telecom market. Assisted in preparation of the Invitation to Bid (ITB) documents, developed technical and financial evaluation criteria; Participated in Bid Evaluation.

Introducing Environmental SDI in Armenia Project, May – Dec.2014

Project Leader / Grantee - Developing publicly accessible online mapping platform. Funded by Natural Resources Canada (GeoConnections) via GSDI Association / US Federal Geographic Data Committee.

The World Bank Group / Government of Tajikistan, Tajikistan, Aug.'13 – Feb. 2014

International ICT Consultant - Developed methodology for paper data transfer to electronic format, preparing the ground for an EDMS for the “Implementation Centre of the Land Registration and Cadastre System for Sustainable Agriculture Project”. Conducted needs assessment, situation analysis, developed recommendations. Developed the step-by-step guidance on data transfer; incl. optimal formats and procedures for electronic documents management; Delivered a short-term training on the subject. Prepared Terms of References for quality control specialists and data scanning sub-contractors.

United Nations Development Programme, Tajikistan, July – Sept. 2011

International GIS Consultant - Capacity building of State Committee of Land Management and Geodesy of Tajikistan (incl. Information Management and Analytical Center, Committee of Emergency Situations (IMAC CoES). Capacity assessment, action plan development; Advising on mobilization of funds for implementation of the Action Plan; As a fund-raising exercise, wrote a winning grant project proposal to the Global Spatial Data Infrastructure association; Provided training on GIS Project Management, National SDIs; consulted on the design and development of an internal, networked, multiuser DB system and the NSDI GeoPortal (concept, functional and technical specifications).

GETINSA INGENIERIA, S.L./Asian Development Bank, Afghanistan, Tajikistan, Nov.'09 – Aug.2011

International GIS Consultant - Pyanj River Basin Flood Management Project. Developed GIS-based analytical tools, knowledge base for the Ministry of Energy and Water, Min. of Water Resources, Land Reclamation; Supervised Tajik and Afghan consultants'; Provided on-the-job training for counterpart staff in Kabul; Developed maps and GIS database for the basin using satellite imagery, aerial photography, topographic maps; Designed topographic survey programs to update and fill gaps in existing base mapping; Mapped changes of glaciers cover in the river catchment area (Pamir and Hindu Kush).

Cardno Emerging Markets Ltd. / Asian Development Bank, UK, Central & West Asia, Aug.– Dec. 2010

International GIS Modelling & Mapping Consultant - Assistance to the ADB's member countries (AFG, PAK, KAZ, UZB, TKM, KG, TAJ, ARM, GEO, AZ) to address the combined impacts of natural and climate change hazards on human communities, natural and built environments. Mapping for Integrated Climate and Disaster Vulnerability Assessment and Risks (Hazards).

The World Bank Group / Government of Tajikistan, Tajikistan, June '10 - Aug. 2010

International GIS Consultant - Designed a GIS course for "Implementation Centre of the Land Registration & Cadastre System for Sustainable Agriculture Project". Trained the staff of the Agency for Land, Geodesy and Cartography on using ArcGIS 9.x SW for creation & maintenance of land records.

Emerging Markets Group Ltd. / USAID, Armenia, May – Aug. 2010

GIS Consultant - Provided mapping services for Primary Healthcare Reform Project. Mapped project activities using (after initial processing) client's geographic and attribute datasets (key indicators).

Emerging Markets Group Ltd. / USAID, Armenia, Aug. '08 – Aug. 2009

MIS/GIS Expert - Project (NOVA) on improvement of reproductive, maternal and child health. Managed MIS, Intranet (MS Access, MySQL, Joomla CMS, GIS, ~20 PCs, central server). Trained project staff in the use of intranet, web-site CMS and DB. Developed 100+ project maps. Developed GIS instruction materials (ArcGIS) and training health professionals from stakeholder organizations.

Prehistoric Armenian Rock Art Research Project, Armenia, June '06 - present

GIS expert, volunteer (co-founder) - British-Armenian research project in the remote mountains by the Institute of Archaeology and Ethnography (National Academy of Sciences). Project coordination, supervision of students. Mapping of rock art distribution, digitization of legacy topographic maps.

Broncoway Ltd, Armenia, Sept. '02 - Oct. 2009

Co-founder / Project Manager - Projects design, management; preparation of project proposals, ToRs. Business development. CSR Officer under UN Global Compact on Environ. Conservation. Managed BPO project leading a team of experts who analysed flood hazards for US real properties. Contributed to web development projects incl. needs assessment, functional & technical specifications. Clients: USAID, Armenian Tourism Development Agency, Chemonics International Inc., British Emb., the WB.

Environmental Conservation & Research Centre (American Univ. of Armenia), Feb.'06 – Sept. 2007

Director of GIS Programme - Teaching GIS/Remote Sensing to grad. students, environmental experts; Wrote research and project proposals for donor funding. GIS data collection, mapping, spatial analysis; procurement & analysis of satellite imagery for studying deforestation, biodiversity, carbon sequestration potential of forests. Fieldwork at the Canadian Forestry Service in the Great Lakes region funded by the Canadian Government (CIDA); Mentored regional youth project (Be The Change Programme).

United Nations Development Program (UNDP), Armenia, Feb.- April 2007

Expert on Bio-Resources Management – preparing 2-nd National Environmental Action Plan. Reviewed policies, legislation, strategy, programmes, projects, evaluated existing capacities.

Rufford Foundation (United Kingdom), Armenia, 2006 – 2007

Lead researcher, grantee - GIS mapping, temporal and spatial analysis of deforestation with satellite imagery, northern Armenia.

Millennium House (Australia), Armenia, Nov.- Dec. 2007

Consultant/Author for EARTH Concise world geography atlas. Authored entries for 15 ex-USSR republics. The atlas won International Map Trade Association Award - Best book in 2008.

Globvision Inc. / CIDA, Association of Universities and Colleges of Canada. Canada, Aug. 2005

Intern/Researcher: GIS & Environmental Remote Sensing. Assisted in preparation of a proposal on acquisition, processing and integration of satellite data with GIS for environmental applications.

Workshops & Trainings

World Bank. *Climate Finance: Innovative Approaches in Supporting Climate Action*. Via Open Learning Campus.

Bergen Summer Research School on *Ocean, Climate, Society: Instabilities and Mobilities on the Climate Change Frontline* interdisciplinary course addressing global challenges at the heart of the 2030 Agenda, with the interconnections of SDG 13 (Climate Action) and SDG 14 (Life Under Water) at its core, while also drawing in the majority of SDGs. 17-27 July, 2019, Bergen, Norway.

American University of Armenia, workshop on “*Current and Best Practices in Disaster Risk Reduction*” 4-5 December 2018; Yerevan, Armenia

UNECE/FAO, UNDA National Coaching Workshop on “*Criteria and Indicators for Sustainable Forest Management for Armenia*”; 13-15 September 2017; Yerevan, Armenia

Erasmus+ MARUEEB Project / American University of Armenia, Series on Engineering and Sustainability; Training on “*Sustainable Development: Theory and Implementation Methods*”; 14-17 November, 2017; Yerevan, Armenia.

UNEP/TH Koln/ADPC online course on “*Disasters and Ecosystems: Resilience in a Changing Climate - Leadership Track*” March, 2018

Public Participation GIS and Ecosystem Services. Public talk / University of Hohenheim hosted at American University of Armenia, May 2018.

Selected talks / presentations

Delivered public lecture at the Central European University, Spatial Mapping and Analysis Research Group on “*Geospatial Crowdsourcing for Environment and DRR*”. 6 Dec., 2017; Budapest, Hungary.

Articles / Papers

A.Asryan, G.Baialieva, M.Cassara, Dr. A.Doerre, Dr.J.Féaux de la Croix, Dr.F.Menga, A.Samakov, A.Weiss (2018). *Pathways to sustainable solutions to manage water and reduce disaster risks under climate change in Central Asia and the Caucasus* (Thematic Input Paper 3) AND *Actors, Approaches and Cooperation Related to Water Management and Natural Hazards Under Climate Change in Central Asia and the Caucasus* (Thematic Input Paper 3). Regional Seminar - Managing Disaster Risks and Water under Climate Change in Central Asia and the Caucasus. Khorog (Tajikistan), 17-23 September 2018. Swiss Agency for Development and Cooperation.

A.Asryan, M.Hazarika, S.Mnatsakanyan, S.Nazaretyan, G.Pandyual. (2017) The main natural hazards and risks of the territory of Dilijan city and the opportunities for application of space-based and information and communication technologies for strengthening disaster resilience. *Ministry of Emergency Situations of RA. Crisis Management and Technology. Collected Articles. N10. ISSN 1829-2984.*

Authored research project paper in the form of a final report on the results of the “*Deforestation: View from the space*” project. 2006, Yerevan, Armenia. www.rufford.org/rsg/Projects/ArmenAsryan

Co-authored the study on “*Inventory and Assessment of Hazardous Waste Hotspots in Armenia: Prioritization of Risks and Actions*”. March, 2008. OSCE.

Authored entries for 15 ex-USSR republics in EARTH Concise world geography atlas. 2008, Millennium House, Australia. http://www.millenniumhouse.com.au/assets/EARTH_Contributors.pdf

Contributed to the preparation of the *2-nd National Environmental Action Plan*, 2007, UNDP, Armenia.

Contributed to “*From Need To Greed*” documentary film on illegal logging and the deforestation of Armenia. 2006, Armenia. <https://vimeo.com/5347616>

Other

Clean driving license. Skilled in driving manual gear 4WD SUV vehicles • Military service in the Armed Forces of Armenia (1996-1998) • *Interests*: Paragliding, aviation and aerospace, hiking, chess, wilderness survival, archaeology, astronomy, photography.

Early work experience

Foreign Financing Proj. Mgt Centre, Min. of Finance & Economy, Armenia, Nov. '03 - June 2004

Content Coordinator for a High-Tech web portal, USAID/WB project.

Yankee Group Inc., USA, Mar.- Apr. 2003 **Intern** at a US technology-consulting company.

Development Programs Ltd (Enterprise Incubator Fund/WB project), Armenia, June - Aug. 2003

Research Analyst for "IT Sector Needs Assessment" project (educational system and businesses).

World Bank Group / Union of IT Enterprises (UITE), Armenia, Apr.'02 - Feb. 2003

WB Vendor Project Manager for IT web-portal development.

Mediamax News Agency, Armenia, 2002

Editor – of "E-Caucasus" IT news bulletin covering Armenia, Azerbaijan, Georgia.

United Nations Industrial Development Organization (UNIDO), Armenia, Oct.- Dec. 2001

Junior National Technology Promotion Expert for "Commercialisation of High-Tech and R&D" programme.

International Executive Service Corps (IESC), Armenia, Oct.- Nov. 2001

Interviewer - of 30 IT CEOs (marketing & management needs survey).

Union of IT Enterprises (UITE), Armenia, Feb.- Aug. 2001

Research Analyst - Co-authored "State of IT Industry" report.

Barry International Ltd. (Ireland), Armenia, July '99 - Nov. 2000

Assistant to Resident Project Manager - construction supervision project.