

CURRICULUM VITAE

Position Title	Water and Sewerage Engineer / (consultant)		
Name of Expert	Vasili VIRLAN		
Date of Birth	28 Dec 1986		
Country of Citizenship/ Residence	Republic of Moldova		
Education	09/2015-present	Technical University of Moldova Degree: PhD student of Technical Sciences / Biological wastewater treatment	
	09/2016-06/2018	State Agrarian University of Moldova Degree: Master's / Hydrotechnical construction	
	09/2010-02/2013	Technical University of Moldova Degree: Master's / Management of sanitary systems, engineering and environmental protection	
	09/2006-06/2010	Technical University of Moldova Degree: Bachelor's degree / Water Supply and Sanitation	

EMPLOYMENT RECORD RELEVANT TO THE ASSIGNMENT

Period	Employing organization and your title/position	Country	Summary of activities performed relevant to the assignment
May 2011 - Present	Apcan Proiect L.L.C.; Team Leader, Project Manager, Water and Wastewater Systems Design Engineer, Supervisor, Procurement Expert <u>For references:</u> Tel: +373 693 20 474; e-mail: virlan.marianna@yahoo.com; Ms. Mariana Virlan, Managing Director	Republic of Moldova	<ul style="list-style-type: none"> • Degree in Water supply and sanitation • Over 10 years of professional experience, of water and wastewater sector • Support to project and contract • Experience in project management of water/wastewater treatment plant, water/wastewater pumping stations and water supply/sewerage networks related projects, which includes the feasibility study, contract preparation and negotiation; design coordination with regulatory agencies; project planning, budgeting and scheduling
July 2010 - May 2011	Protelco Geocad L.L.C.; Team Leader, Project Manager, Water and Wastewater Systems Design Engineer, Supervisor, Procurement Expert <u>For references:</u> Tel: +373 680 94 222; e-mail: protelcomoldova@gmail.com; Mr. Dumitru Cretu, Managing Director	Republic of Moldova	<ul style="list-style-type: none"> • Preparation and evaluation of detail design, bill of quantities and tender documents for wastewater/water supply systems, pumping stations and treatment plants • Workshops for the presentation of the detail design • Coordination of detail design with project verifiers • Construction supervision of water/wastewater treatment facilities,

April 2009 - July 2010	Piroterm Service L.L.C.; Team Leader, Project Manager, Water and Wastewater Systems Design Engineer, Supervisor, Procurement Expert <u>For references:</u> Tel: +373 691 84 535; e-mail: info@piroterm.md; Mr. Vladimir Catan, Managing Director	Republic of Moldova	pumping stations, networks, including managing water/wastewater projects including treatment plants <ul style="list-style-type: none"> • Preparation of procurement documents for prequalification and evaluation of prequalification of applicants • Knowledge about FIDIC contracts • Skills in managing a team composed of local and international experts
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Membership in professional associations

- Association of Installation Engineers from the Republic of Moldova

Language Skills

(indicate only languages in which you can work)

	Speaking	Reading	Writing
Romanian		Mother tongue	
English	3	3	3
Russian	2	2	2

Indicate competence on a scale of 1 to 5 (1 - excellent, 5 - basic)

ADEQUACY FOR THE ASSIGNMENT

Detailed tasks assigned on consultant's team of experts	Reference to prior work/assignments that best illustrates capability to handle the assigned tasks
<ul style="list-style-type: none"> • Consulting services for the improvement of water supply and sewerage services in the municipality and district of Cahul 	<p>Name of assignment or project: Rehabilitation and extension of sewerage system in the town of Donduseni, Donduseni rayon</p> <p>Year: Since 12/2019</p> <p>Location: Republic of Moldova</p> <p>Client: Donduseni City Hall</p> <p>Main project features: Rehabilitation and extension of sewerage system in the town of Donduseni, Donduseni rayon. Sewerage network (37 km), wastewater pumping stations (4 pcs), etc.</p> <p>Position held: Team leader. Water supply and sanitation engineer</p> <p>Activities performed:</p> <ul style="list-style-type: none"> • Establishment of the design concept; • Preparation of inception report; • Preparation of preliminary project; • Preparation of functional project; • Workshop for the presentation of the functional project; • Calculation of costs, bill of quantities; • Preparation of detailed design and tender documentations; • Workshop for the presentation of the detailed design; • Preparation of documents for procurement; • Coordination of the final design with regulatory agencies; • Coordination of detail design with project verifiers; • Coordination of detail design with international experts.

Name of assignment or project: Modernisation of Local Public Services: Water Supply & Sanitation

Year: 11/2018 - 12/2019

Location: Republic of Moldova

Client: RDA North (Regional Development Agency) / Funding Agency: GIZ – German Development Corporation

Main project features: Rehabilitation and extension of water supply system in the town of Edinet. Water adduction (3.5 km), water supply network (32 km), etc.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of inception report;
- Preparation of preliminary project;
- Preparation of functional project;
- Workshop for the presentation of the functional project;
- Calculation of costs, bill of quantities;
- Preparation of detailed design and tender documentations;
- Workshop for the presentation of the detailed design;
- Preparation of documents for procurement;
- Coordination of the final design with regulatory agencies;
- Coordination of detail design with project verifiers;
- Coordination of detail design with international experts.

Name of assignment or project: Modernisation of Local Public Services: Water Supply & Sanitation

Year: 11/2018 - 12/2019

Location: Republic of Moldova

Client: RDA North (Regional Development Agency) / Funding Agency: GIZ – German Development Corporation

Main project features: Rehabilitation and extension of water supply system in the town of Falesti. Water adduction (2 km), water supply network (17 km), etc.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of inception report;
- Preparation of preliminary project;
- Preparation of functional project;
- Workshop for the presentation of the functional project;
- Calculation of costs, bill of quantities;
- Preparation of detailed design and tender documentations;
- Workshop for the presentation of the detailed design;
- Preparation of documents for procurement;
- Coordination of the final design with regulatory agencies;
- Coordination of detail design with project verifiers;
- Coordination of detail design with international experts;
- Construction supervision.

Name of assignment or project: Modernisation of Local Public Services: Water Supply & Sanitation

Year: 08/2018 - 10/2019

Location: Republic of Moldova

Client: RDA Center (Regional Development Agency) / Funding Agency: GIZ – German Development Corporation

Main project features: Rehabilitation and extension of water supply and sewerage systems in the town of Ungheni, Ungheni rayon. Water supply and sewerage networks (28 km), wastewater pumping stations (3 pcs), etc.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of inception report;
- Preparation of preliminary project;
- Preparation of functional project;
- Workshop for the presentation of the functional project;
- Calculation of costs, bill of quantities;
- Preparation of detailed design and tender documentations;
- Workshop for the presentation of the detailed design;
- Preparation of documents for procurement;
- Coordination of the final design with regulatory agencies;
- Coordination of detail design with project verifiers;
- Coordination of detail design with international experts;
- Construction supervision.

Name of assignment or project: Modernisation of Local Public Services: Water Supply & Sanitation

Year: 08/2018 - 08/2019

Location: Republic of Moldova

Client: RDA Center (Regional Development Agency) / Funding Agency: GIZ – German Development Corporation

Main project features: Rehabilitation and extension of water supply and sewerage systems in the town of Calarasi. Water supply and sewerage networks (22 km), chlorination station (1 pc), etc.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of inception report;
- Preparation of preliminary project;
- Preparation of functional project;
- Workshop for the presentation of the functional project;
- Calculation of costs, bill of quantities;
- Preparation of detailed design and tender documentations;
- Workshop for the presentation of the detailed design;
- Preparation of documents for procurement;
- Coordination of the final design with regulatory agencies;
- Coordination of detail design with project verifiers;
- Coordination of detail design with international experts;
- Construction supervision.

Name of assignment or project: Modernisation of WWTP from Chisinau city

Year: 02/2018 – 05/2018

Location: Republic of Moldova

Client: Regional operator in Chisinau city – Apa Canal Chisinau /

Funding Agency: Regional operator in Chisinau city – Apa Canal Chisinau

Main project features: Construction complex required for the installation and operation of two centrifuges/decanter for the dehydration of primary sludge, produced at the WWTP in Chisinau. Installation of two centrifuges for deshydration of primary sludge.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of detailed design and tender documentations;
- Calculation of costs, bill of quantities;
- Preparation of documents for procurement;
- Workshop for the presentation of the detailed project;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: Modernisation of water supply network in Chisinau city (EBRD project)

Year: 08/2017 – 08/2018

Location: Republic of Moldova

Client: Regional operator in Chisinau city – Apa Canal Chisinau /

Funding Agency: EBRD – European Bank for Reconstruction and Development

Main project features: Reconstruction of the water supply network in Chisinau town. Section 16. Water supply network (4 km).

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept according with a feasibility study;
- Preparation of detailed design according to FIDIC Yellow Book;
- Bill of quantities;
- Workshop for the presentation of the detailed project;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: Strengthening capacities of the Ministry of Internal Affairs and its internal subdivisions for the effective implementation of the sector reform agenda (MIA Project)

Year: 04/2017 – 08/2017

Location: Republic of Moldova

Client: UNDP Moldova – United Nations Development Program in

the Republic of Moldova / Funding Agency: UNDP Moldova

Main project features: Technical design services for the Dinamo Swimming Training Center. Rehabilitation of existing swimming pool (adaptation to European Standards), change all filtration system (pumps, pressure filters, disinfection station (chlorination station), heat exchangers), etc.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of detailed design and tender documentations;
- Calculation of costs, bill of quantities;
- Workshop for the presentation of the detailed project;
- Preparation of documents for procurement;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: Support for agriculture and rural development in ATU Gagauzia and Taraclia district (SARD)

Year: 03/2017 – 08/2018

Location: Republic of Moldova

Client: UNDP Moldova – United Nations Development Program in the Republic of Moldova / Funding Agency: UNDP Moldova

Main project features: Water treatment station in Salcia village, Taraclia rayon. New water treatment plant (chlorination station).

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of detailed design and tender documentations;
- Calculation of costs, bill of quantities;
- Workshop for the presentation of the detailed project;
- Preparation of documents for procurement;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: Water supply in northern Moldova

Year: 05/2015 – 03/2018

Location: Republic of Moldova

Client: Swiss Resource Centre and Consultancies for Development / Funding Agency: Swiss Resource Centre and Consultancies for Development

Main project features: Water supply system in the village of Japca, Floresti rayon. Water adduction (2,5 km), water supply network (16 km), water source station, water pumping station (1 pc), disinfection station (chlorination), water tank $V=50 \text{ m}^3$.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Establishment of the design concept;
- Preparation of detailed design and tender documentations;
- Calculation of costs, bill of quantities;
- Workshop for the presentation of the detailed project;
- Preparation of documents for procurement;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: Water supply and sanitation in Galesti commune

Year: 10/2013 – 05/2015

Location: Republic of Moldova

Client: Galesti city Hall

Main project features: Water supply and sewerage systems in the village of Galesti, Strasenii rayon. Water adduction (2 km), water supply network (32 km), sewerage network (32 km), rehabilitation of the 3 boreholes, water pumping stations (2 pcs), water treatment plant including disinfection system (chlorination) with $Q=600 \text{ m}^3/\text{day}$, rehabilitation of concrete water tank $V=250 \text{ m}^3$, water tower $V=50 \text{ m}^3$, wastewater pumping stations (3 pcs), wastewater treatment plant with $Q=600 \text{ m}^3/\text{day}$.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Review of the feasibility study;
- Establishment of the design concept;
- Preparation of detailed design and tender documentations;
- Calculation of costs, bill of quantities;
- Workshop for the presentation of the detailed project;
- Preparation of documents for procurement;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: National Water Supply and Sewerage Project

Year: 08/2011 – 10/2013

Location: Republic of Moldova

Client: 6 villages city Hall / Funding Agency: EBRD – European Bank for Reconstruction and Development

Main project features: Design and supervision for 6 water supply projects from Floresti rayon (Ghindesti, Floresti, Hirtop, Varvareuca, Domulgeni, Izvoare). Water adduction (5 km), water supply networks (60 km), rehabilitation of the 5 boreholes, water pumping station, water towers $V=50 \text{ m}^3$ (3 pcs), new borehole (1 pc), disinfection (chlorination) station (1 pc), etc.

Position held: Team leader. Water supply and sanitation engineer

Activities performed:

- Review of the feasibility study;
- Establishment of the design concept;
- Preparation of detailed design and tender documentations;

- Calculation of costs, bill of quantities;
- Workshop for the presentation of the detailed project;
- Preparation of documents for procurement;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.

Name of assignment or project: Regional Development and Social Protection Project in Moldova

Year: 10/2010 – 12/2011

Location: Republic of Moldova

Client: Ministry of the Environment of Moldova. Orhei city Hall.
Regional operator in Orhei city – Apa Canal Orhei / Funding
Agency: World Bank and EU (European Union)

Main project features: Wastewater Treatment Plant (Constructed Wetland) in Orhei town. WWTP with $Q=4000 \text{ m}^3/\text{day}$, Wastewater pumping station (1 pc).

Position held: Water supply and sanitation engineer

Activities performed:

- Review of the feasibility study;
- Establishment of the design concept;
- Preparation of detailed design and tender documentations according to FIDIC Red Book;
- Bill of quantities;
- Workshop for the presentation of the detailed project;
- Preparation of documents for procurement;
- Coordination of the final project with the regulatory agencies;
- Coordination of detail design with project verifiers;
- Construction supervision.