

CURRICULUM VITAE

Name Frank P o g a d e

Year of Birth 1963

Nationality German

Languages German, French, English, Vietnamese (Basic)

Qualification Diplom-Ingenieur

Education Apprenticeship as motor vehicle fitter

Technical University of Berlin, Germany
Technical University of Vienna, Austria

1993 University degree of "Diplom-Ingenieur"
in Environmental Protection Technology,
specializing in Urban Water Management

Trainings Capacity Works / GIZ Management Tool (July 2009)

Countries of Work Experience China, Vietnam, Yemen, Austria, Thailand, Turkey, UAE,
Jordan, Kenya

Professional Experience 21 years

PROFESSIONAL CAREER

2003 to date	Freelance Consultant	
2001 - 2003	Berlinwasser International AG Berlin / Germany	Business Development Group Head of Vietnam Operations
1998-2001	Carl Bro a/s (Deutschland) Berlin / Germany	Project and Sales Manager
1993-1998	FICHTNER GmbH & CO KG Stuttgart /Germany Consulting Engineers Berlin Office	Project Manager Project Engineer

ASSIGNMENTS INCLUDE (Selection):

12/2014 to date Fichtner Water & Transportation GmbH	Project Management Support and Capacity Development for the Greater Mekong Subregion Corridor Towns Development Project Overall Project Management of 10 infrastructure sub-projects including water treatment, wastewater treatment, road construction, port rehabilitation, river embankment and solid waste landfills and recycling. Funded by Asian Development Bank (ADB). Quang Tri and Tay Ninh Provinces / Vietnam	Team Leader
10/2014 – 12/2014 GFA Consulting Group GmbH	Development of Training Modules Development of comprehensive training modules on O&M of decentralised wastewater treatment plants and annual O&M planning, within the GIZ "Wastewater and Solid Waste Management Program". Hanoi / Vietnam	Training Expert
09 / 2014 – 12 / 2014 Dorsch International Consultants GmbH	Consulting Services on Decentralised Wastewater Solutions (DWWS) in Jordan Development of a conceptual design for decentralised wastewater treatment plants in selected hot-spot areas in Jordan. Consideration of institutional, organisational and O&M issues and capacity development measures. On behalf of GIZ. Jordan	Sanitation / DEWATS Expert
09 / 2014 – 10 / 2014 Helmholtz Centre for Environmental Research (UFZ)	O&M of Decentralised Wastewater Treatment Plants in Jordan, based on International and German Standards Development of O&M schemes and Standard Operation Procedures for the operation of treatment plants and sewer systems. Investigations on Private Sector Participation opportunities. Jordan	Technical Advisor
06 / 2014 – 08 / 2014 GFA Consulting Group GmbH	Water Sector Reform Programme Component 3 - Water & Sanitation for the Urban Poor / Kenya Consultancy to enhance the design of an operation toolkit for Decentralized Wastewater & Faecal Sludge Treatment Facilities (DTFs) within the framework of the Up-scaling Basic Sanitation for the Urban Poor (UBSUP-Kenya) programme – (Development of a technical "Tool Box" for the Water Service Providers) On behalf of Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Kenya	Sanitation / DEWATS Expert
02 / 2014 – 03 / 2014 Helmholtz Centre for Environmental Research (UFZ)	Draft Guideline for the Selection of Appropriate Technologies in Decentralised Wastewater Treatment in Jordan Elaboration of a comprehensive technical guideline (Draft) for the NICE Office / Jordanian Ministry of Water and Irrigation / Water Authority of Jordan	Technical Advisor
09 / 2013 – 03 / 2014 Dorsch International Consultants GmbH	Feasibility Study of Decentralized Wastewater Treatment and Reuse Clusters on Regional Scale in Jordan Technical and economical feasibility of decentralised, clustered wastewater treatment schemes in Northern Jordan. Development of technical scenarios and O&M options including private sector participation	Team Leader
Since 09/2013 Luri Watersystems GmbH	Development / Adaptation of a Treatment System for Sewer Overflows In Vietnam LURITECH System for storage and treatment of sewer overflows; Protection of surface water bodies in Hanoi and Saigon Project development; feasibility study; technical review	Technical Advisor

<p>02/2009 – 09/2013 GFA Consulting Group GmbH (GIZ)</p>	<p>Waste Water and Solid Waste Management Project Team Leader of 35 staff. Capacity Building for 9 provincial wastewater companies. Range of services include: Financial Management, Asset Documentation, Human Resource Management, Customer relations Management, Institutional Development, Decentralized Waste Water Treatment, etc. In Co-operation with GIZ, DED, KfW and InWent. Hanoi and 9 provinces in Vietnam</p>	<p>Team Leader / Chief Technical Advisor</p>
<p>11 / 2012 – 03 / 2013 Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) Cities Development Initiative for Asia (CDIA)</p>	<p>Pre-feasibility Study for Hai Phong City on Waste water Management and Flood Protection Development of a PFS according to CDIA standards, including options for financing and Public-Private-Partnership components Hai Phong City, Vietnam</p>	<p>Technical Expert / Backstopper</p>
<p>06 / 2011 Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ)</p>	<p>Assessing the Contributions of Decentralized Waste Water Treatment to Climate Change Adaptation Fact finding mission and assessment of the potential for climate change adaptation through decentralized waste water treatment. Elaboration of proposals for the implementation of demonstration projects. Bac Lieu City, Vietnam</p>	<p>Head of Mission</p>
<p>2008 TU Dresden (BMBF)</p>	<p>Rehabilitation of the Hoan Kiem Lake Local Project Management Hanoi / Vietnam</p>	
<p>2008 Environmental Systems Int.</p>	<p>Decentralized Waste Water Treatment Plants for Housing Areas Contract negotiations, project survey and technical coordination for the construction of three waste water treatment plants for housing compounds in Dubai Dubai / UAE</p>	
<p>2008 ATB GmbH</p>	<p>Waste Water Treatment Plant Project development for a 50.000 PE waste water treatment plant for the city of Gazipasa. Contract negotiations, technical and financial proposal Gazipasa, Turkey</p>	
<p>2007-2008 ATB GmbH</p>	<p>Decentralized Waste Water Treatment Demonstration project (SMART) in Jordan, funded by BMBF Local coordination of ATB's contributions to decentralized Waste water treatment. Coordination with project partners in Germany, Jordan and Israel Amman / Jordan</p>	<p>Project Coordination</p>
<p>2007 - 2008 Olympos Yachting</p>	<p>Waste Water treatment Plant for Tourism Resort Project development and consultancy services for the supply , installation and commissioning of a WWTP with a capacity of 300 PE for a hotel. Olympos / Turkey</p>	
<p>2007 - 2008 Dinh Vu Development Joint Venture Corp. Ltd.</p>	<p>Waste Water treatment Plant for Industrial Zone Project development and consultancy services for the procurement, installation and commissioning of 2 WWTP with a capacity of 500 PE each. Dinh Vu IZ / Haiphong / Vietnam</p>	
<p>2006 Hoa Phat Group</p>	<p>Waste Water treatment Plant for Industrial Zone (8.000m³) Project development and Consultancy; Preparation of a Feasibility Study; in co-operation with SIEMENS AG Hung Yen Province / Vietnam</p>	
<p>2006 Herbst Umwelttechnik GmbH</p>	<p>Implementation of a PPP-Project in the Sewage Sector (Sludge Treatment) Project formulation; liaison with local partners; assistance in the application process Hanoi / Vietnam</p>	
<p>2006 Duc Viet Co. Ltd.</p>	<p>Waste Water Treatment Plant for a Meat Processing Factory Design and implementation of a waste water treatment plant Hung Yen Province / Vietnam</p>	

2006 P. Dussmann TNHH; HCMC	Waste Water Treatment Plant for an Industrial Laundry Facility Waste water treatment / P-Elimination with a capacity of 210 m ³ per day; project management, design check and construction supervision Binh Duong Province / Vietnam
2006 Yueh Chyang Canned Food Company	Waste Water Treatment Plant for a Fish Processing Factory Consultancy on waste water treatment with a capacity of 1.000 m ³ per day; project management, design check and construction supervision Long An Province / Vietnam
2005 Hydrogeologie Nordhausen GmbH	Implementation of a PPP-Project in the Sewage Sector Project formulation; liaison with local partners; assistance in the application process Hanoi / Vietnam
2005 - 2008 ATB Umweltschutz GmbH	Introduction of AQUAmax waste water treatment system to Vietnam Introduction of a SBR waste water treatment system to Vietnam; identification of a demonstration project; sales support and strategy development Vietnam / country-wide
2005 Dr. Fechter Umweltschutz GmbH	Pilot Plant for Arsenic Removal Design and initial operation of an Iron-Hydroxid filter for the removal of arsenic from drinking water. National University of Economics Hanoi / Vietnam
2005 Ludwig Pfeiffer GmbH	Support to Sales Department Project Identification Missions; Screening of business opportunities in the field of micro-tunnelling, sewer rehabilitation and water loss reduction Vietnam / country-wide
2005 Dr. Fechter Umweltschutz GmbH	Investment in the Water Sector / Application for IFC Funding Preparation of project proposal and application for Technical Assistance from the International Finance Corporation's (IFC) Trust Fund Vietnam
2005 Herrenknecht AG	Support to Sales Department Preparation of workshops and seminars; match-making with relevant institutions and companies from the water and sewage sector Vietnam
2005 Zukunftsagentur Brandenburg GmbH	Support to Federal State of Brandenburg / Brandenburg Economic Development Board Preparation of background information on water, energy and environmental issues; Preparation of a business delegation to Vietnam; Identification of business opportunities
2004 - 2005 Sachsen Wasser GmbH	Integrated Water Resources Management Project Preparation of a Feasibility Study for an Integrated Water Resources Management Project for the Song Lam (Blue River) catchment area / Northern Central Vietnam.
2004 RODECO GmbH	Support to Sales Department Elaboration of project proposal / tender documents for a GTZ funded project; Fact Finding; Acquisition of local resources Vietnam
2004 Sachsen Wasser GmbH	Integrated Water Resources Management Project Elaboration of a project proposal for an Integrated Water Resources Management Project in Nghe An and Ha Tinh provinces, funded by BMBF / Germany
2004 Gsan Ökologische Gewässersanierung GmbH	PPP-fund raising for a shrimps production / aqua culture project Mekong Delta / Vietnam
2004 Lutz-Jesco GmbH Germany	Sector study Elaboration of a comprehensive sector overview on recent and mid-term water and sewage investment projects for a German dosing pump manufacturer Country-wide / Vietnam
2004 Sachsen Wasser GmbH	Water supply project Development of a water supply project in northern Vietnam Viet Tri / Vietnam
2003 Hanoi Sewage and Drainage Company	Establishment of a Competence Centre for Waste Water and Sewage Services Hanoi / Vietnam

Berlinwasser International AG		
2002 – 2003	Technical Support to the Hanoi Sewage and Drainage Company (PPP-Project) Hanoi / Vietnam	
GTZ Berlinwasser International AG		
2002	Development Strategy Comprehensive elaboration of Berlinwasser's Entry and Development Strategy for Vietnam	
Berlinwasser International AG		
2001 – 2003	TOT-Project Purchase of a Waste Water Treatment Plant (TOT-Project); Conceptual Planning, Contract and Bank Negotiations Tianjin / P.R. China	
Berlinwasser International AG		
2001 – 2002	Service Water Plant Conceptual Planning, Contract and Bank Negotiations Tianjin / P.R. China	
Berlinwasser International AG		
2001 – 2002	Chongqing Waste Water Treatment Project (BOT) Preparation of a Feasibility Study; Contract and Bank Negotiations Chongqing / P.R. China	
Berlinwasser International AG		
2001	Negotiations on the purchase of the Nakon Sawan Water Works Preparation of a Feasibility Study, Contract Negotiations Nakon Sawan / Thailand	
Berlinwasser International AG		
2000	Viet Tri Water Supply Project Health Care Component (KW) Tender Preparations, Team Composition and Contract Negotiations	
Carl Bro a/s		
1999 – 2000	BOT Project Dung Quat Water Plant Preparation of a Feasibility Study, Contract Negotiations Vietnam	
Carl Bro a/s		
2000	Gdansk Urban Transportation Project (EBRD) Preparation of tender documents; Team Composition, Fact Finding Mission Gdansk / Poland	
Carl Bro a/s		
2000	Waste Water Management Samut Prakarn QA Mission and Performance Evaluation, Preparation of Tender Documents	QA Manager
DANIDA		
1999	Market Study on Solid Waste Treatment in Vietnam Comprehensive study on solid waste treatment in Vietnam, focussing on hospital waste treatment	Project Manager
EU /Asia Invest		
1998	Master Plan Socatra Island Fact finding mission for the elaboration of a comprehensive master plan for the island of Socatra / Yemen	Team Member
Sanbar Development Corporation / London		
1997-1998	Sewerage and Waste Disposal in the City of Vinh / SR Viet Nam Optimisation of sewerage disposal and waste management in the City of Vinh	Project Manager
People's Committee of the City of Vinh		
1997	Stormwater Management Shanghai Model Town Outline concept for stormwater management in the district of Yangpu/Dinghai in Shanghai, under consideration of innovative and future-oriented technologies as described in Agenda 21 In cooperation with FICHINTER GmbH & Co KG Shanghai / China	Project Manager
First Urban Life Dev. Munich Germany		
1996-1997	Register of wastewater dischargers to sewer for the City of Halle Entering trade and industrial premises discharging their wastewater to sewer, together with their production parameters, into a computerized register in selected districts of Halle	Project Manager
Halle Environmental Office Halle Germany 5063		

<p>1996 FDE Fichtner Development Engineering Stuttgart Germany 5053</p>	<p>Expert opinion of surface water protection, FORD Works, Cologne Investigation of three typical plants for compliance with environmental protection legislation of the German federal state of North Rhine-Westfalia; hazard analysis and appraisal of accident conditions; retrofit possibilities and cost comparison</p>	<p>Project Manager</p>
<p>1996 Spree-Neisse District Office for Nature Conservation Waste and Water Management Cottbus Germany 5046</p>	<p>Spremerg Household Wastes Landfill Engineering of the leachate treatment plant from conceptual engineering to permit application planning incl. gas recovery</p>	<p>Project Manager Project Engineer Project handling study/ planning/contract award Conceptual design Cost estimate Pre-project planning Economic analysis Dimensioning calculations Conceptual engineering Permit application planning</p>
<p>1995 - 1996 Oranienburg sewerage utility Oranienburg Germany 5043</p>	<p>Development of a Laboratory Information Management System (LIMS) for Oranienburg Sewage Treatment Plant Development of a comprehensive software solution for reporting and administration of sampling and analysis in the field of drinking water and wastewater for Oranienburg Sewage Treatment Plant, creation of interfaces to the UBIS Environmental Operating Data Information System</p>	<p>Project Manager</p>
<p>1995 - 1996 Oranienburg sewerage utility Oranienburg Germany 5041</p>	<p>Creation of a register of premises sewage treatment plants for Oranienburg Creation of EDP-assisted register of premises sewage treatment plants and collecting pits for the town of Oranienburg; evaluation of existing and calculated data; expansion of UBIS software to include the register of premises sewage treatment plants and collecting pits</p>	<p>Project Manager</p>
<p>1995 - 1996 Oranienburg sewerage utility Oranienburg Germany 5034</p>	<p>Creation of a register of trade effluent discharges to sewer and of a land register for Oranienburg Creation of a register of trade effluent discharges to sewer as well as collection of land-specific key data for the town of Oranienburg; collection of all wastewater-relevant trade effluent discharges to sewer as well as determination of known and paved areas through walk-down inspection of 2,000 land plots in the service area of Oranienburg sewage works</p>	<p>Project Manager</p>
<p>1995 - 1996 EURAWASSER Sewerage and disposal utility Rostock Germany 5033</p>	<p>Creation of a register of trade effluent discharges to sewer for Rostock (phase I) Registration of all wastewater-relevant trade effluent discharges to sewer in the service area of EURAWASSER Rostock through evaluation of print media, data collection from authorities, test inspections, etc.; supply and adaptation of UBIS Software; statistical evaluations of the collected data</p>	<p>Project Manager</p>
<p>1995 - 1996 Berliner-Wasser-Betriebe (Berlin water utility) Berlin Germany 5018</p>	<p>Preparation of trade-effluent discharge register for former East Berlin Recording of wastewater-relevant trade effluent discharges to sewers by inspection of approx. 90,000 properties; matching with external data; allocation to industrial sectors; updating as project proceeds</p>	<p>Project Manager</p>

1995	Humboldt University in Berlin Berlin Germany 5031	Preparation of a wastewater register for Humboldt University in Berlin, lot II Preparation of a wastewater register by inspection of all buildings and institutes, development of a data-collection sheet, determination of places of wastewater discharge, description of untreated wastewater, assessment of wastewater treatment, classification of buildings into hazard classes	Project Manager
1995	Humboldt University in Berlin Berlin Germany 5019	Preparation of a wastewater register for Humboldt University Berlin Preparation of a wastewater register by walk-down inspections of all buildings and institutes, drawing up a survey form, identifying places of arisal, characterisation of raw wastewater, evaluation of wastewater treatment	Project Manager
1994 - 1995	Finnowcanal-Panke-Wuhle association of water and land resources Bernau, Brandenburg Germany	Returning a culverted watercourse to a natural state - Collection of data on present situation (situation regarding received waters, hydrological conditions, present ecological condition, etc.) - Investigation of past history of watercourse in order to stipulate a target definition - Possible options for watercourse routing; comparison of these; selection of best option - Hydraulic calculations and proofs - Coordination of relevant authorities organisations and public agencies - Drawing-up planning documents - Cost estimate - Preparation of bid specifications	Project Manager
1994	SIEMENS Anlagentechnik Karlsruhe Germany 5015	Market study on sludge drying equipment Broken down into: - general contractors - equipment and principal components/ complete installations - list of projects	Project Engineer
1994	Stadtwerke Oranienburg (municipal utility) Oranienburg Germany	Preparation of a sewage-sludge disposal study for Oranienburg Sewage Works	Project Engineer
1993 - 1994	Berliner Wasser-Betriebe (BWB) Berlin Germany 5785A01	Berlin (West) wastewater register - loading customer data of water utility, BWB, (130,000 records) into UBIS environmental and operating data information system - identifying and recording all industrial and commercial premises (around 20 000) as a basis for a waste water register of the former West Berlin - computerized processing and sectorial structuring of data collected during works visits using UBIS - programming of online information system 'Waste water register' on BWB's mainframe - preparing an interface program for loading collected data into register	Project Engineer
1992 - 1993	Deutscher Alpenverein Sektion Berlin	Waste Water Treatment "Berliner Hütte" Technical evaluation of a waste water treatment plant in the Alps (2.200 m above sea level); Zillertal / Austria	Project Engineer

1992

Technical University
of Berlin
Berlin
Germany

Technical University of Berlin
Institute of Technical Environmental Protection
Subject area:
Water management in residential areas
Preparation of a waste-water register for the
Technical University of Berlin

Study Contract

Memberships :

- IWA International Water Association
- DWA Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e. V.
- Water Solutions International e.V. (Chairman)

Publications / Presentations:

- Decentralized Waste Water Treatment in Vietnam's Urban Areas - Current Problems and Lessons Learned. First Conference on Science and Technology: "Natural Resources and Environment towards Sustainable Development", HCMC University for Natural Resources and Environment, 14. December 2012, Ho Chi Minh City, Vietnam
- Aufbau und Beratung von Abwasserbetrieben in Vietnam – Ein Erfahrungsbericht. Korrespondenz Abwasser, August 2012
- Management Software Solutions for Waste Water Companies. 2nd ADB-DMC and Partners Sanitation Dialogue, May 2011; Manila, Philippines
- Introducing the Decentralized Approach to Waste Water Treatment in Vietnam's Urban Areas. DEWATS Conference Manila, Philippines, May 2011
- Rationale for DWWM in Urban Areas and "Decentralized vs. Centralized – what is suitable?" Conference on Decentralized Waste Water Treatment and Management in Urban Areas. Hanoi, December 8., 2010
- The WWM project's approach to decentralized waste water treatment in Vietnam's urban areas. DEWATS conference in Surabaya / Indonesia, March 2010 (Poster)
- Die Wasserwirtschaft in Vietnam: Vietnam Brief, Aktuelle Wirtschaftsinformationen aus dem Delegiertenbüro der deutschen Wirtschaft Hanoi, Mai 2004
- Optimierung der Indirekteinleiterüberwachung in Berlin: Korrespondenz Abwasser 1997, Nr.8
- Abwasser- und Indirekteinleiterkataster, Erfahrungen im Kommunen und Industriebetrieben: Entsorgungspraxis 12/1996
- Erfahrungen mit der Erstellung eines Einleiterkatasters für eine Millionenstadt: Entsorgungspraxis 12/1994
- Abwasserreinigung im Hochgebirge: Umweltschutz, März 1993