AYA HYDRO

CV

PERSONAL INFORMATION

Name	**SABAH AL-SHIDIDI**
Address	TORNVÄKTAREGATAN 2, 218 72 TYGELSJÖ, SWEDEN
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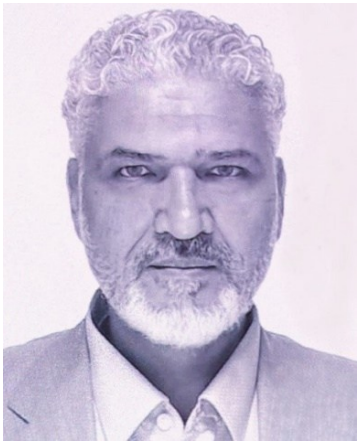
E-mail	sabah@AYAHYDRO.com
Website	www.AYAHYDRO.com. www.shididi.net.
Date of birth	20-01-1966
Driving license	B



PROFESSIONAL SUMMARY

Profile

Urban Water Engineer - CEO

Strategic urban water planning and climate change adaptation, project management, hydrology, hydraulics, modelling and investigation, cloudburst, flood, Waste- and rainwater, design and construction as Urban Water Engineer.

More than 36-year experience in infrastructure projects within climate change adaptation, water planning, cloudburst, flood mapping and modelling, drainage systems, river systems, dam safety and all technical areas within urban water backed up by solid academic and practical education and experience within water management, engineering, policy and planning.

Sabah has gathered more than 26-year expertise of different MIKE by DHI modelling modules together with other modelling tools like Scalgo Live and Storm Tac. Sabah worked with water quests in Sweden, Danmark and Iraq as a project manager, technical manager and engineer / modeller employed in state institutions, local authorities, municipalities, utilities, consultants and contractors.

Sabah has as well gathered experience in project economy and administration, planning of water structure plans, drainage systems, climate change adaptation, mitigation and action planning where he practised his expertise hydrological and hydraulic modelling of drainage systems, rivers, coast, advanced flood modelling and analysis in 3D. Sabah is also expert in rainfall data analysis, advanced GIS analysis, cost-benefit analysis and Asset Management concept / applications for both construction and maintenance lifetime.

Sabah has executed several development projects like Svenskt Vatten development project Guidelines for Modelling of Drainage systems *"Riktlinjer för modellering av spillvattenförande system och dagvattensystem" SUV rapport 2016-15*

Sabah is also a *Peer Reviewer of several International Water Association (IWA) publications.*
Se for more detail www.AYAHYDRO.com and www.shididi.net.

Sabah has worked approx. 8 years in Sweden, 17 years in Denmark and more than 10 years in Iraq as project manager Technical director and engineer.

PROFESSIONAL SKILLS AND COMPETENCES

- Project and economy management.
- Marketing and client networking.
- Hydrology and hydraulics.
- Planning, Cost-benefit analysis, risk-, price analysis and evaluation.
- Investigation, hydraulic modelling of drainage systems, river systems and surface water.
- Cloudburst, modelling and consequence analysis of flooding.
- Climate change adaptation, risk analysis and ”blue spot” mapping.
- Rain analysis from rain stations and weather radar.
- Design, validation and execution.

TECHNICAL SKILLS AND COMPETENCES

- MS Project, Gantt project.
- MIKE+ (all modules), MIKE URBAN (CS, SWMM and Epanet), MIKE FLOOD, MIKE21, MIKE Hydro, MIKE11, MIKE11GIS Gandalf,and MIKE VIEW from DHI.
- Scalgo Live and Scalgo Live Tuflow..
- Storm Tac for rainwater infrastructure investigations and rainwater quality.management.
- GIS (Geo- Information Systems); ArcGIS, MapInfo, Map Basic and QGIS.
- InfoWorks for hydraulic modelling, CS and Flood from Innovyze .
- DANDAS-Graf**:** MicroStation-database and design tool of water supply and drainage systems in Denmark.
- VA bank: GIS-database and design tool of water supply and drainage systems in Sweden.

WORK EXPERIENCE

Period	**2024 - DATE**
Name and address of employer	AYA HYDRO AB Tornväktaregatan 2 218 72 Tygelsjö, Sweden
Type of business or sector	Engineering consultancy, Urban water
Occupation or position held	CEO and technical director
Main activities and responsibilities	• Project and economy management • Strategic urban water planning, Structure plans. • Bidding and tenders • Hydrological and hydraulic modelling • Cloudburst, climate change adaptation and risk analysis • Rainwater investigation and LID. • Dam safety modelling and management. • Wastewater network modelling • Water supply network modelling • Design control • Housing development projects from A to Z. • Asset Management for urban water.
Period	**2022 - 2024**
Name and address of employer	COWI AB Pildammsvägen 6B 211 46 Malmö, Sweden
Type of business or sector	Engineering consultancy, Urban water
Occupation or position held	Senior Project Manager Urban Water Planning and development
Main activities and responsibilities	• Project and economy management • Bidding and tenders • Hydrological and hydraulic modelling • Cloudburst, climate change adaptation and risk analysis • Urban Water planning, Structure plans • Rainwater investigation and LID • Water supply network modellling • Design control. • Housing development projects from A to Z. • Asset Management for urban water.
Period	**2018 - 2022**
Name and address of employer	WSP Sverige AB Jungmansgatan 10 211 11 Malmö, Sverige
Type of business or sector	Engineering consultancy, Urban water
Occupation or position held	Senior Project Manager Hydraulic modelling and development
Main activities and responsibilities	• Project and economy management • Hydrological and hydraulic modelling • Cloudburst, climate change adaptation and risk analysis • Plan and solutions for ”Urban Water” → Structure plans • Rainwater investigation and LID • Dam safety modelling and management. • Design control. • Housing development projects from A to Z. • Asset Management for urban water.
Period	**2017 - 2018**
Name and address of employer	MT Højgaard Group Knud Højgaards Vej 7 2860 Søborg, Danmark
Type of business or sector	Contractor, Design department.
Occupation or position held	Senior design engineer: Urban water and development projects.
Main activities and responsibilities	Housing development projects from A to Z, drainage network systems and flood hydrological/hydraulic modelling and risk assessment, Climate change adaptation, GIS, design control and execution.
Period	**2015 - 2017**
Name and address of employer	Hillerød Forsyning Ægirsvej 4 DK-3400 Hillerød, Danmark

Type of business or sector	Urban water, Utility
Occupation or position held	Project and economy Manager: Urban water and development projects.
Main activities and responsibilities	Housing development projects from A to Z, drainage network systems and flood hydrological/hydraulic modelling and risk assessment, Climate change adaptation, GIS, water plans.
Period	**2013 - 2015**
Name and address of employer	Sweco Environment AB Gjörwellsgatan 22 100 26 Stockholm Sweden
Type of business or sector	Urban water, Consultancy
Occupation or position held	Project Manager and Specialist in Urban water modelling. MIKE URBAN-MOUSE, MIKE FLOOD, MIKE 21, MIKE 11, GIS.
Main activities and responsibilities	Drainage network systems and flood hydrological/hydraulic modelling and risk assessment, Climate change adaptation, GIS, VA-plans.
Period	**2010 - 2013**
Name and address of employer	Avedøre Wastewater Services (AWWS) Kanalholmen 28 2650 Hvidovre Denmark
Type of business or sector	Urban water, Utility
Occupation or position held	Project Manager, MSc. Urban Water Engineer
Main activities and responsibilities	• Senior modeller of AWWS's catchment of 10 municipalities of 300 000 PE/10 000 ha. • Capacity optimization, flood risk assessment and renovation projects in Brøndby municipality; modelling, calibration, design, bidding, supervising. • Representative of AWWS in the METSAM project for Real Time Control (RTC) of the catchment of Copenhagen area together with HOFOR and Lynetten. • Project manager of basins capacity and renovation projects in the catchment of AWWS - budget 25 million DKK.
Period	**2005 – 2010**
Name and address of employer	Egedal Forsyning A/S (Egedal Supply Ltd.) Krogholmvej 71 3650 Ølstykke
Type of business or sector	Urban water, Utility
Occupation or position held	MSc. Urban Water Engineer, Project Manager
Main activities and responsibilities	• Project management from A to Z of new and renovation CS projects. • Planning, modelling, Cost-benefit analysis, design, tendering, bidding, execution. • Have established Rain Information System based on radar technology. • Wastewater planning and contributing in preparing local master plans. • Flooding risk assessment using MIKE FLOOD. • Supervising the GIS-AutoCAD based drainage system database (DasGraf-Microstation). • Reporting of drainage problems and solutions within the budget frame to the board committee. • Coordinating with construction projects and activities in accordance with the local and regional plans. Coordinating with local and state authorities in accordance with the valid regulations.
Period	**2004 – 2005**
Name and address of employer	Frederiksborg Amt (County of Frederiksborg) Hillerød-Denmark
Type of business or sector	Urban water, Environmental Authority
Occupation or position held	MSc. Urban Water Engineer
Main activities and responsibilities	• WinRIS (Rain Information System): Rain-discharge determination system for data analysis of CS to recipients in the county to model the loads of pollutants on rivers and shores. • Inspection of municipal wastewater treatment plants & discharge points to recipients, annual reports to the Ministry of Environment and preparing GIS themes.
Period	**1997 - 2003**
Name and address of employer	Education, language and integration courses
Type of business or sector	University, Aid organisations
Occupation or position held	Teaching assistant, Student and Delegate
Main activities and responsibilities	• MSc at DTU & RUC, education, language & culture courses (1997-2003). • Teaching assistant at DTU on a MSc. course "Water Pollution" (2000-2002). • Delegate at the Danish Red Cross and still (2003 to date).
Period	**1991 – 1996**

Name and address of employer	Kermasha Engineering & Contracting Association, Baghdad-Iraq
Type of business or sector	Construction, entrepreneur, consulting
Occupation or position held	BSc Engineer, Project Manager
Main activities and responsibilities	• Engineering design works, technical and strategic planning of projects, site supervising, project management and decision-making procedures assignments. • Project strategy management. The trend of making feasibility studies, accurate design and controlled execution, was the major procedure of work after 1991. • River, Water supply and drainage system projects were taking a significant part of the association works and my projects.
Period	**1987 -1991**
Name and address of employer	Compulsory Military Service: Directorate of Military Works (Military Projects Commission-Department of Large Projects), Ministry of Defence, Iraq
Type of business or sector	Construction, Military structural engineering projects
Occupation or position held	BSc Engineer, Project Manager
Main activities and responsibilities	• Site engineer and resident engineer in different projects. • Site director engineer and budget manager (November 1988 - June 1991). • The work was in cooperation with international contracting and consultation companies.
Period	**1984 – 1987**
Name and address of employer	Kermasha Engineering & Contracting Association, Baghdad-Iraq
Type of business or sector	Construction, entrepreneur, consulting
Occupation or position held	Trainee Engineering Student
Main activities and responsibilities	• Project plans drawing, Survey Engineering and assessments of quantities for pricing. • Monitoring the works advancement of the association's different projects.

EDUCATION AND TRAINING

Period	**2000 – 2002**
University	Roskilde University Center (RUC) - Denmark
Principal subjects/occupational skills covered	Technological and Socio-Economic Planning, Environmental Impact Assessment (EIA), Biodiversity, Environmental-political discourse
Title of qualification awarded	MSc. in Environmental Policy and Regulation
Period	**1997 – 2001**
University	Technical University of Denmark (DTU)
Principal subjects/occupational skills covered	Environmental Engineering and Science – Urban Water, Hydrology, Hydraulics, Soil pollution, Water pollution, Water Resources, Air Pollution, Water Management, Water processes
Title of qualification awarded	MSc in Environmental Engineering and Science
Period	**1983 – 1987**
University	University of Technology (UOT), Baghdad-Iraq
Principal subjects/occupational skills covered	Civil and Structural Engineering, Hydraulic Structures, Hydrology, Project Management, Tendering, Bidding, Contracts, Piped and Channelled systems design, Water Supply, Drainage System design, Water Resources, Water Processes, Geo-technique, Construction, Concrete Design, Steel Structures Design, Foundation Design, Highway Engineering, Traffic Engineering, Buildings assembly, Building Services, Factories, etc.
Title of qualification awarded	BSc in Building and Construction Engineering and Science

PERSONAL SKILLS

LANGUAGES	ARABIC	ENGLISH	DANISH	SWEDISH
Reading skills	Mother tongue	Excellent	Excellent	Excellent
Writing skills	Mother tongue	Excellent	Excellent	Good
Verbal skills	Mother tongue	Excellent	Excellent	Good

SOCIAL SKILLS AND COMPETENCIES	In teamwork I would describe myself as completer finisher / shaper
ORGANIZATIONAL SKILLS AND COMPETENCIES	I work independently, as well as in a team with skilful communication ability with strategic oriented management that I can lead and coordinate a teamwork. I have strong investigational skills. I am thorough, determined, result oriented. I think systematically and analytically, which enables me to carry out several tasks at the same time
OTHER SKILLS AND COMPETENCIES	My beloved daughter (13 years old), family, friends, debates, history, football, basketball, cycling, IT, handy works especially maintenance of bikes, cars, gardening, household, drawing, films, writing, and culture.
ANNEXES	COURSES, CONFERENCES, PUBLICATIONS, REFERENCE PROJECTS

ANNEX 1: COURSES

See also http://www.shididi.net/courses.html

Project management courses

2023: ABK09, Consultancy law - ABK09 and contract management.
2022: Project management – Fast track.
2019: ABK09 - WSP intern course.
2018: Working environment - WSP - intern course.
2018: Ny som konsult - WSP - intern course.
2018: Project management Part 2 and part 3 - WSP - Civil Skåne
2018: Project management - MT Højgaard (3 days)
2015: To work consultative at Sweco (2 days).
2014: Project management, intern course at Sweco (1 day).
2014: Sustainable development and ethics, two online courses at Sweco.
2014: Stockholm. Project management.
2009: Management at IDA (Engineers Union in Denmark).
2009: Project management at IDA (Engineers Union in Denmark).
2009: Meeting management at IDA (Engineers Union in Denmark).
2003-2004: 3 courses at the Danish Red Cross: Crisis management – Refugee Camp Management giving a priority to water supply and sanitation 2004, Security Course 2003, Basic Training Course.

Language courses

2013-2014: Swedish for Danes at Berlitz,
1997-2002: Danish for foreigners in different schools in Copenhagen.

Technical courses

2024: MIKE+, comprehensive, water quality in water supply network modelling
2024: MIKE+, comprehensive, water supply network modelling
2024: MIKE SHE, groundwater modelling and coupling to MIKE HYDRO and MIKE URBAN / MIKE+
2024: MIKE HYDRO Basin, hydro-power and irrigation planning and management
2024: MIKE+ SWMM, drainage system modelling
2024: MIKE FLOOD River modelling (1D-2D flood modelling)
2023: Scalgo, terrain design and cross-section design
2023: MIKE ZERO Pre- and Postprocessing
2023: MIKE+ (1D-2D flood modelling) CS and river comprehesive (2 days - Online)
2023: MIKE+ CS Comprehensive (2 days - Online)
2023: MIKE+ River modelling
2023: MIKE+ RTC (Real Time Control modelling and management) for CS and River systems.
2023: MIKE HYDRO River modelling
2022: MIKE+ (1D-2D) Comprehensive (2 days)
2021: MIKE+ (1D-2D), introduction (1 day)
2021: MIKE+ 1D, introduction (1 day)
2019: Gandalf - Intern course for WSP at DHI (2 days)
2018: AutoCAD Civil 3D Basic and advanced - Symetri (2 days)
2016: Mike 21 – Ny screening methods for 2-D modellering – DHI-DK. (1 day).
2016: Mike Urban 2016 – update, new tools and Mike1D modelling – DHI-DK (2 days).
2016: Mike Urban 2016_"Modelling of green cities" with focus on climate change adaptation and LID – DHI-DK (2-days).
2014-2015: Intensive Swedish level 8 for dansih speaking at Berlitz-Sweden.
2014: Applied hydraulics for water engineers (3 days October + 3 days November), Svenskt Vatten, Sigtuna.
2013: Mike by DHI user seminar.
2012: DHI 2 days course MIKE 21 & MIKE 3 FLOW MODEL FM - Hydrodynamic modelling using Flexible mesh, DHI Software Users' Seminar.
2011: Gandalf (Time series analysis tool) at DHI-Sweden, MapInfo-GIS (New in V.11).
2010: MIKE FLOOD and MIKE URBAN at DHI-Denmark, Desktop3 in Arc-GIS at Informi-GIS, Denmark.
2009: MIKE11, MIKE11GIS, MIKE FLOOD-River and MIKE 11 advanced at DHI.
2008: DHI software users' seminar. Course at Water Across Europe – DHI 2nd European conference.
2007: MIKE FLOOD course at DHI, DHI software users' seminar, Pipe centre "Rørcenterets" day.
2006: DHI software users seminar, "Ferskvandscentrets" courses (Administration of Sewer, Bidding of drainage system projects), Grundfos Pump school (Basis module, Wastewater I, Wastewater II, Water supply II and Heating I), Pipe centre – Technological Institute "Rørcenter – Teknologisk Institut" courses (Sewer in theory and practice for supervisors).
2005: MIKE URBAN courses and continuous training, DasGraf-courses (Basis course, DasGraf TV and manhole reports, DasGraf – Administration, Themes in Microstation), "Ferskvandscentrets" courses (Runoff management), seminarer.dk (The new function practice for drainage systems -publication 27).
2003: Hydraulic design and analysis of Urban Drainage Systems using MOUSE/SAMBA Environment & Resources – DTU. Eng. College of Copenhagen: GIS training on MapInfo, MapBasic and Vertical Maps.

ANNEX 2: CONFERENCES

See also http://www.shididi.net/Conferences.html

2013 (Oct.): NORDIWA 2013, The 13th Nordic Wastewater Conference, Malmö, Sweden (2 poster papers).
2011 (Sep.): 12 ICUD Porto Alegre, Brazil (2 papers).
2010 (Sep.): International MIKE by DHI Conference 2010, Copenhagen (1 paper).
2009 (Nov.): NORDIWA11 "11th Nordic Wastewater Conference", Odense – Denmark (Poster paper).
2008 (Oct.): Water Across Europe – DHI 2nd European Conference, Dubrovnik – Croatia (1 paper).
2003: International Water Association (IWA) in Kuala Lumpur – Malaysia (1 paper).
2002: International Water Association (IWA) in Istanbul – Turkey (1 paper).

Updated 17-01-2025

ANNEX 3: REFERENCE PROJECTS

See also http://www.shididi.net/projects.html

2024-2025: Expert modelling, Munkedal, dam safety for kasarna och Björid dams together with upstream river and basin system and downstream system with 10 consequense scenarios of MQ and HQ200-year events. Modelling with MIKE+ of more than 100 km^2 model area, as 1D-2D coupled model. A project by AYA HYDRO.
2024-2025: Expert and writer, Rainwater strategy for Partille Municipality. A project by AYA HYDRO.
2024: Expert modelling, Design modelling of the demand and waterhead of the 11 km water supply pipeline from the waterwork "Ringsjöverket" and toward west in "Väster Strö". A Project för Syd Vatten.
2024 strategic Project:: Technical Manager - modelling JP-Borås, stormwater and cloudburst modelling of 1D-2D coupled hydrodynamic model for assessing the impact of establishing the railway path from the center of Borås and ca. 10 km towards the southeast of Borås. A project for Trafikverket
2023-2024: Project Manager, expert, Plania, Rainwater and cloudburst investigation for a plan area Plania in Nacka Municipality in Sweden. Modelling via Scalgo and Storm Tac has been implemented in the project. A project for Nacka Municipality.
2022-2024: Technical Manager, Säve, recipient investigation for downstream recipients for a plan area Säve in Gutenburg. Modelling via MIKE+ and Storm Tac has been implemented in the project. A project for Castellum.
2023-2024: Specialist, Aspen, Rainwater investigation for plan area Aspen in Huddinge Municipality in Sweden. Modelling via Scalgo and Storm Tac has been implemented in the project. A project for Huddinge Municipality.
2023-2024: Expert, Järnvägsplan Lindholmsförbindelsen, Drianage and cloudburst design and investigation of the railway tunnel Lindförbindelsen in the city of Gothenburg.
2023 strategic Project: Technical Manager, Rainwater and cloudburst investigations via modelling through MIKE+ and Storm Tac for a coupled model for an Industrial establishment for Volvo Trucks in Mariestad - Sweden, which has an area of 142 ha. the model area is 2100 ha, which includes river and dike modelling, culvert and bridge modelling, pipenetwork modelling, 2D-surfacewater modelling with present and future scenarios with solutions.
2023: Project Manager, Liljevalchs and Medis, Stockholm, Rainwater and cloudburst investigations, modelling, mapping and solutions for two public properties in Stockholm city. A project for Stockholm City.
2023 VTCC: Expert, Design and and modelling of drainage and cloudburst system of Volvo Truck Costumer Center in Gutenberg - Sweden. The system consistes of pipenetwork, channels, culverts, ponds, and retention basins on a catchment area of 30 ha. Modelling via Scalgo and Storm Tac has been implemented in the project.
2023 Söder om MIS: Expert modelling, Modelling of four scenarios of drainage, river and cloudburst system of a development project in Hyllie, Malmö, Sweden together with solutions. Modelling via MIKE+, Scalgo and Storm Tac has been implemented in the project. A project for Malmö City.
(2022-2023) Strategic Project: Technical manager, Investigation, modelleing and mapping of cloudburst for public properties and instiututions in Stockholm City spreed on 11 separate catchment areas. A project for Stockholm City.
2022: Project Manager, expert, Hemsamariten, Capacity and cloudburst modelleing via a coupled 1D-2D model in MIKE+ for Hemsamariten development project in Stockholm. A project for Åke Sundvall.
2021-2022: Project manager, Bromstensgluggen, Cloud burst mapping and rainwater investigation for the plan area in Stockholm.
2021-2022: Technical manager, Gunsta, Scalgo-analysis and cloud burst modelling against design rain and 100-year rain for the plan area in Uppsala.
2021 - 2022: Expert, Grebbestad, Structure plan for wastewater and rain water systems together with cloudburst modelling and cost-benefit analysis.
2021 - 2022: Technical manager, Sporthotellet, Flood modelling for design rain regn of 10- and 30-års rain together with cloud burst of 100-year event for the plan area. The project includes definition of responsibility between Stockholm City and Stockholm Water and Solid Waste utility.
2020 - 2022: Expert, Effect of high tide protection on rainwater system in Gothenburg.
2020 - 2022: Technical Manager, Humlegården, design of subsurface rainwater magasin for design storm and cloudburst in Stockholm.
2021: Technical manager, Riddersvik, Design of Riddersvik dike in Stockholm against design rain.
2021: Project manager, Archimedes 1, hydraulic modelling for design storm 10- and 30-year rain and capacity optimization of rainwater pipe system in the plan area due to a new development project.
2021: Project manager, Hagsätravägen, Cloudburst mapping and preliminary cost-benefit analysis for the plan area in Stockholm due to a new development project.
2020 - 2021: Project manager, NSVA, flood modelling and cloudburst mapping for 9 cities in Landskrona och Bjuv against design storm of 5- and 10-year events, together with cloudburst for 50- and100-year events.
2020: Project manager, Nybro, FLood modelling and cloudburst mapping for Nybro city against design storm (10- and 20-year events) and cloudburst (100-year events together with Copenhagen rain).
2019 - 2021: Expert, Design rain and cloudburst modelling for Sävar, Obbola och Hörnefors.
2019 – 2021: Expert, Uppdate of the wastewater hydraulic modell of Umeå South according to executed changes in the pipe system according to 20- and 50-year prognoses.
2019 - 2021: Technical manager, Ostlänken - OLP1, Trafikverket. Technical manager for Hydrologi, surface water and cloudburst for the new fast railway Ostlänken (OLP1: 15 km east Linköping) that Trafikverket will construct. My tchnical area is Hydrological and hydraulic analysis and evaluation of hydrology, surfacewater flows/flooding, design of culverts under OLP1, and solutions for surfacewater and floodings that caused by constructing OLP1. The project area consists of 6 6 models with a total area of 14 610 ha.
2019: Technical manager, Cloudburst and sea level increase for Smörkajen DP 5611, NYHAMNEN, Malmö city, Stadsbyggnadskontoret. Modelling of cloudburst and sea level increase with on the short and long term.
2018: Expert, Tornlyckan, Höganäs Kommun. Cloudburst and design storm modelling together with solution proposals for a development project of more than 20 ha.
2018: Expert, South of badhuset, Malmö city. Cloudburst, design of rainwater pipesystem and terrainregulation for a 4 ha housing development project.
2018: Expert, Fortuna, Malmö Stad. Cloudburst, design of rainwater pipesystems and terrain regulation for a 20 ha housing development project.
2017: Technical manager, Vinge Centrum, Frederikssund Kommune, NOVAFOS, Frederikssund-Danmark. Modeling, design of drainage system and climate change adaptation solutions for a 30-ha housing development project in Danmark - with a train station, commercial and housing areas with expected population of 10 000 PE.
2016: Project manager, Uvelse, separating of combined pipe system with climate change adaptation and LID solutions.
2015: Project manager, Asset Management. Saneringsplanering.
2015: Project manager, development projects in Hillerød: Planning, design, modelling, QA, economy and execution.
2014-2015: Expert, Uppsala, Ulleråker, surfacewater riskanalysis with MIKE FLOOD / MIKE 21.
2014-2015: Project manager, Modelling of watewater system in Roslagsvatten i 4 municipalities.
2014-2015: Expert, Modellign and calibration of wastewater system in Uppsala.
2014-2015: Project manager, Upplands Väsby – Sårbarhetsanalys, Klimatanpassning och blue spot kartering. Climate change adaptation, risk analysis, and blue spot mapping.
2014-2015: Project manager, Svenskt Vattens utvecklingsprojekt 14-117 "Riktlinjer för modellering av dag- och spillvatten". Se also this link. Development project, Guidlines for modelling of rain and wastewater systems.
2014: Wastewater modelling of Sickla Island of Nacka Municipality.
2014: Design and validation of wastewater pipe network for the housing development project in Årstafältet.

Updated 17-01-2025

2013-2014: Design, capacity and CSO optimization of Bromma tunnel project and Henriksdal Wastewater treatment plant, Stockholm.
2013-2014: Calibration of rainwater pipe system model, capacity optimization, bas in solution and flood elimination in Snättringe – Huddinge, Stockholm.
2014: Flood modelling and 3D presentation of Orminge in Nacka Municipality.
2014: Climate change adaptation and blue spot map analysis of Upplands Väsby, Stockholm.
2013: Modelling, calibration and flood risk assessment and solution for in total 250 ha catchments in Brøndby.
2013: Project manager for capacity optimization and renovation of a 67.000 m3 basin and the capacity optimazation of its catchment.
2012-2013: Model calibration and scenario modelling of combined sewer system in catchment B (146 ha) in Brøndby municipality for optimal implementation of system capacity.
2012: Capacity optimization against flooding: Planning, modelling, design, tendering, bidding and supervising of basin and rainwater drainage system in catchment I (78 ha) in Brøndby.
2011: Developing and calibration of MIKE URBAN MOUSE-RDII regional model (10 000 ha/300 000 PE) of AWWS.
2011: MIKE URBAN MOUSE-RDII Modelling of Herlev Municipality west of Copenhagen for allocating of infiltration to wastewater pipe system and solution proposals.
2010: Improving, calibration, verification and validation of the MOUSE model of the rainwater drainage system in Vallensbæk Municipality west of Copenhagen.
2010: Improving and solution model for an acute flooding problem in Brøndby Municipality with producing detailed solution design.
2010: Renovation of RB04 combined sewer basin in Høje-Taastrup Municipality west of Copenhagen.
2010: Bidding of TV-inspection projects of 10 municipalities of AWWS west of Copenhagen.
2009: Saving of approx. DKK 5 million in a new road project by implementing hydraulic optimisation.
2009: Risk assessment and hydraulic analysis on basis of current and future climate change for Kildedal leisure area using MIKE FLOOD (MIKE21, MOUSE and MIKE11).
2009: Risk assessment on basis of current and future climate change for basins and lagoons in Stenløse town centre as integrated part of the Stenløse tributary by using MIKE FLOOD (MIKE21, MIKE11 and MIKE URBAN-MOUSE).
2008-2009: Regulating the discharge of Ørnebjerg area/quarter in Ølstykke city to Skekelsø Lake which includes hydraulic optimisation, projecting and execution.
2008-2009: Establishing a Rain Information System based on weather radar system of DHI.
2008: Saving DKK 7 million in renovation projects and between DKK 25 and 50 million in advance for the 4 years after 2008.
2007: Smørumnedre, saving of over DKK 5 million by implementing MIKE URBAN-MOUSE model optimisation for alternative solutions of renovation.
2006-2007: Peter Appelsvej, housing development project: Saving of DKK 1.3 million by suggesting alternative solutions due to MIKE URBAN-MOUSE calculations, modifying structures, and sorting out overestimated and double measured quantities in the quantity list.
2005-2007: Have eliminated flooding in Ganløse town, Frederikssundsvej road and Stenløse town.
2005-2008: Hydraulic modelling of (700-house) housing development project in "Stenløse syd" that implemented Local Discharge of Rain (LDR), implementing local soil infiltration magazine, to contain rainwater without overloading drainage system.
2006-2007: Building a 1200 m3 underground round basin for combined sewer system in Ganløse.
1993-1995: "Project Manager" of a renovation project of an infrastructure project, included water supply network and drainage system in Dawra area in Baghdad.
1988-1991: "Site director engineer" of the construction of Ar-Rashidyeh Military Hospital 500-bed north of Baghdad with a budget of 215 million US$ between 1981-1991. I have saved more than 300,000 US$ in 1990.

ANNEX 4: SELECTED PUBLICATIONS

SE ALSO
HTTP://WWW.SHIDIDI.NET/PUBLICATIONS.HTM

2013: Flood Risk Assessment Implementing GIS hydrological Computation and 1D Hydraulic Model. Poster, Paper, Video.
2013: Does Infiltration Affect Overflows from the Avedøre Wastewater Sevices WWTP Catchment in Copenhagen?. Poster, Paper.
2011: "Local Area Weather Radar (LAWR) System to Validate Drainage Systems Capacity—Case Study from Egedal, Denmark" 12ICUD, Porto Alegre, Brazil.
2011: "Full-Scale Real Time Control Demonstration Project in Copenhagen's Largest Urban Drainage Catchments", 12ICUD, Porto Alegre, Brazil.
2010: "Local Area Weather Radar (LAWR) System to Approve Drainage Systems Capacity—Case Study from Egedal, Denmark" DHI2010 Conference -Copenhagen.
2010: "Modelleringshåndbog", Modelling Handbook at Avedøre Watewater Services, August 2010.
2009: "Implementation of Hydraulic Modelling to Support Sustainable Economic and Quality Assurance in the Municipal Water Company in Egedal – Denmark" NORDIWA11 Conference – Odense, Denmark.
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