

## CONSULTANT PROFILE

# Bazin Equbay Gebreamlack



*Senior Hydraulics Engineer / Dam and Irrigation Specialist  
/ Project Manager*

Senior Hydraulics Engineer with over 15 years of experience in dam engineering, large dam rehabilitation, irrigation infrastructure, flood protection works, construction supervision, contract management, and hydraulic design review across Ethiopia. His profile combines strong site-based engineering leadership with practical experience in feasibility studies, detailed design, hydraulic modeling, supervision of major works, and multidisciplinary coordination on complex water infrastructure projects.

**MSc in Civil Engineering (Hydraulics)**

**BSc in Hydraulics & Water Resource  
Engineering**

Dam, Irrigation & Flood Protection Specialist  
Project Manager / Resident Engineer

## Executive Summary

Bazin Equbay Gebreamlack is a senior hydraulics engineer with substantial experience in hydraulic infrastructure planning, dam and irrigation engineering, flood protection design, construction supervision, rehabilitation works, and contract administration. His professional record reflects progressive responsibility in both design and supervision environments, with a strong focus on technically demanding water projects involving dams, spillways, irrigation systems, river training works, drainage systems, and associated civil infrastructure.

He has served in key roles such as Project Manager, Resident Engineer, and site-based engineering lead on large and medium-scale projects in Ethiopia, including flood protection works, dam rehabilitation assignments, airport flood protection, irrigation schemes, and major dam construction supervision. His experience includes hydraulic analysis, hydrological review, feasibility assessment, detailed design follow-up, contract administration, payment certification, quality control, and coordination of multidisciplinary engineering teams.

*Strong water infrastructure delivery requires sound hydraulic judgment, disciplined project supervision, and the ability to connect design intent with practical field execution, quality assurance, and contract performance.*

## **Areas of Professional Strength**

Bazin Equbay Gebreamlack's profile is particularly relevant to dam and irrigation engineering, hydraulic structures, flood protection systems, construction supervision, contractor coordination, engineering management, and technical review of design and implementation documents. He brings a solid combination of office-based design understanding and practical site-level control in major water infrastructure works.

### **Core Areas of Expertise**

- Dam engineering and dam rehabilitation support
- Irrigation engineering and gravity-fed irrigation systems
- Flood protection works and river training structures
- Hydrological and hydraulic analysis
- Construction supervision and quality control
- Contract administration and payment certification
- Technical review of detailed designs and implementation plans
- Multidisciplinary project coordination and field leadership

### **Professional Roles**

- Project Manager
- Resident Engineer
- Senior Hydraulics Engineer
- Dam and Irrigation Specialist
- Construction Supervision Engineer
- Contract Management and Site Coordination Specialist

## Core Technical and Leadership Strengths

Hydraulic Engineering	Dam Engineering	Dam Rehabilitation	Irrigation Infrastructure
Flood Protection Design	River Training Works	Construction Supervision	Contract Administration
Hydrological Review	HEC-RAS	GEO-STUDIO	AutoCAD Civil 3D
ArcGIS	BOQ Preparation	Cost Estimation	Project Leadership

## Professional Profile

FULL NAME	NATIONALITY	DATE OF BIRTH
<b>Bazin Equbay Gebreamlack</b>	<b>Ethiopian</b>	<b>27 August 1988</b>
PROFESSION	EMAIL	PHONE
<b>Senior Engineer (MSc)</b>	<b>Hydraulics bazineamlack@gmail.com</b>	<b>+251 911 491275</b>

## Education

### Hawassa University, Ethiopia

*2017*

Master of Science (MSc) in Civil Engineering (Hydraulics Engineering)

### Arbaminch University, Ethiopia

*2009*

Bachelor of Science (BSc) in Hydraulics & Water Resource Engineering

## Professional Training and Certifications

### Certified Development

- Project Management Programme (PMI-USA) – Certified
- GIS Training – Certified
- Public Procurement Training – Certified

### Professional Licenses

- Practicing Professional Sanitary Engineer – Registration No: PPSE/1602
- Driving License – Valid
- Passport – Valid

## Software and Language Skills

### Software Skills

- Hydraulic Modeling: HEC-RAS, GEO-STUDIO
- Design & Drafting: AutoCAD Civil 3D
- GIS & Mapping: ArcGIS, Global Mapper
- Project Management: Microsoft Project
- General: Microsoft Office Suite

### Languages

- Amharic – Excellent
- English – Excellent

## Selected Career Highlights

### More Than 15 Years of Progressive Experience

- Extensive involvement in dams, flood protection, irrigation infrastructure, hydraulic structures, rehabilitation works, supervision, and major public engineering projects across Ethiopia.
- Strong project delivery roles including Project Manager, Resident Engineer, Office Engineer, Site Manager, and Site Engineer.

### Relevant Experience in Water Infrastructure

- Participated in rehabilitation and supervision assignments involving existing dams, instrumentation upgrades, irrigation systems, spillways, outlet works, and flood protection structures.
- Experienced in reviewing contractor performance, processing payments and claims, evaluating variation orders, certifying quantities, and ensuring compliance with technical requirements.

## Employment Record

### Ethiopian Construction Works Design and Supervision Corporation

January 2025 – Present

Project Manager for the Hawassa Airport Flood Protection Project, leading hydraulic review, flood protection design coordination, feasibility assessment, site data evaluation, BOQ preparation, cost estimation, and implementation planning.

## **Ethiopian Construction Works Design and Supervision Corporation**

**January 2024 – January 2025**

Resident Engineer for the Logia Dam and Irrigation Project, supervising construction activities, reviewing design and methodologies, processing payments and claims, coordinating technical issues, and leading site engineering teams.

## **Ethiopian Construction Works Design and Supervision Corporation**

**March 2023 – January 2024**

Resident Engineer for the Legedadi and Dire Dam Rehabilitation Project, supervising rehabilitation works, coordinating with Webuild, reviewing specifications, and representing the client in technical site matters.

## **Ethiopian Construction Works Design and Supervision Corporation**

**October 2022 – February 2023**

Project Manager for the Chaka Dam Project, leading the design coordination process for dam and appurtenant structures, feasibility analysis, hydraulic review, and design compliance.

## **Ethiopian Construction Works Design and Supervision Corporation**

**December 2020 – October 2022**

Resident Engineer for the Suela Dam and Irrigation Project, responsible for supervision, technical review, hydraulic assessment, construction follow-up, and progress reporting.

## **Ethiopian Construction Works Design and Supervision Corporation**

**January 2019 – December 2020**

Resident Engineer for Kuraz Irrigation & Sugar Development Project Lot-4, supervising major irrigation infrastructure works and supporting hydraulic optimization, quality control, and stakeholder reporting.

## **Signatures Consulting Architects and Engineers PLC**

**August 2017 – January 2019**

Project Manager for the Debark University Project, coordinating design and supervision of roads, water supply, storm drainage, and utility infrastructure.

## **Earlier Professional Roles**

**August 2009 – August 2017**

Held successive technical roles including Junior Engineer, Site Engineer, Site Manager, Project Manager, Senior Sanitary Engineer & Contract Administration, and Office Engineer on dam, irrigation, airport, solid waste, and sugar development projects.

## **Experience Relevant to Dam, Irrigation, and Flood Protection Projects**

### **Flood Protection and Hydraulic Analysis**

Experience in flood protection design support, river diversion works, river training works, dyke construction, retaining walls, floodplain re-grading, and hydraulic analysis using 2D HEC-RAS-based approaches.

### **Dam Construction and Rehabilitation Support**

Strong site and management experience in new dam construction and rehabilitation assignments, including review of design documents, supervision of works, contractor coordination, and technical representation of the client.

### **Irrigation Engineering and Water Infrastructure Delivery**

Experience in gravity-fed irrigation systems, canal infrastructure, drainage systems, intake and outlet structures, command area development, and field-level construction supervision.

### **Contract and Construction Management**

Experienced in contractor payment evaluation, claims and variation review, progress monitoring, schedule review, quantity certification, technical reporting, and coordination of field engineering personnel.

## **Representative Responsibilities Relevant to Hydraulic and Dam Infrastructure Projects**

- Review of design reports, drawings, methodologies, and implementation schedules.
- Hydrological and hydraulic assessment for dam, flood protection, and irrigation systems.
- Supervision of construction works for compliance with specifications and contract requirements.
- Review and approval of BOQs, cost estimates, take-off sheets, and measurement certificates.
- Assessment of contractor performance, progress, and quality control procedures.
- Coordination with geotechnical, survey, hydrology, and environmental teams.
- Preparation of progress reports, technical briefs, and client presentations.
- Review of variation orders, claims, time extensions, and payment certificates.
- Support to constructability review and design optimization.
- Site representation of the client in technical and contractual matters.
- Leadership of site engineers, inspectors, and supporting technical staff.
- Follow-up of environmental and social safeguard compliance in project implementation.

## **Selected Project Exposure**

### **Hawassa Airport Flood Protection Project**

Project Manager for flood protection design involving river diversion works, embankments, retaining walls, hydraulic analysis, and costed implementation planning.

### **Logia Dam and Irrigation Project**

Resident Engineer for supervision of a major earth-fill dam, spillway, intake tower, outlet works, and gravity-fed irrigation network serving 20,000 hectares.

### **Legedadi and Dire Dam Rehabilitation Project**

Resident Engineer for rehabilitation and instrumentation upgrade of existing dams supplying water to Addis Ababa, with World Bank-supported components.

## **Chaka Dam Project**

Project Manager for dam and appurtenant structures designed for landscape and water storage, including feasibility review and detailed design coordination.

## **Suela Dam and Irrigation Project**

Resident Engineer for dam and irrigation scheme supervision, technical review, and project reporting.

## **Kuraz Irrigation & Sugar Development Project**

Resident Engineer for large-scale irrigation infrastructure including canals, drainage, control structures, and hydraulic optimization.

## **Representative Project Experience**

<b>Project</b>	<b>Role</b>	<b>Client / Institution</b>	<b>Relevant Experience</b>
Hawassa Flood Protection Project	Airport Project Manager	Ethiopian Construction Works Design and Supervision Corporation	Flood protection design coordination, site assessment, hydraulic analysis, river training works, dyke and retaining wall design, BOQ preparation, and implementation review.
Logia Dam and Irrigation Project	Resident Engineer	Ethiopian Construction Works Design and Supervision Corporation	Construction supervision, design review, contractor management, payment certification, and field leadership for a major dam and irrigation project.
Legedadi and Dire Dam Rehabilitation Project	Resident Engineer	Ethiopian Construction Works Design and Supervision Corporation / World	Rehabilitation supervision, instrumentation upgrade follow-up, dam safety-

		Bank-supported assignment	related review, contractor coordination, and technical reporting.
Chaka Dam Project	Project Manager	Ethiopian Construction Works Design and Supervision Corporation	Dam design coordination, feasibility review, hydraulic analysis supervision, and multidisciplinary team leadership.
Kuraz Irrigation & Sugar Development Project – Lot 4	Resident Engineer	Ethiopian Construction Works Design and Supervision Corporation	Supervision of large-scale irrigation infrastructure, hydraulic review, quality control, contractor coordination, and stakeholder reporting.

## **Earlier Professional Development**

Earlier roles strengthened his practical base in dam and irrigation construction, sanitary engineering, airport infrastructure, sugar development, and construction site management. These positions include work with Tigray Water Works Construction Enterprise, Federal Water Works Enterprise, Wacon Construction PLC, Ethiopian Airports Enterprise, and Yemane Girmay General Contractor PLC.

## **Professional Value in Water Infrastructure Delivery**

Bazin Equbay Gebreamlack offers a strong combination of hydraulic engineering knowledge, field-based supervision experience, contract management capability, and practical leadership in water infrastructure implementation. His profile is especially suited to assignments requiring a senior engineer who can bridge design understanding with site execution, contractor management, hydraulic review, and disciplined reporting in dam, irrigation, and flood protection projects.

## References

**ABEL DEMISSE**

**Head, Dam, Hydropower & Energy Process**

Ethiopian Construction Works Design and Supervision Corporation

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## Contact

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**Company:** Aqua Nile

**Consultancy Role:** Senior Hydraulics Engineer / Dam and Irrigation Specialist / Project Manager