

Abdelrahman Ismail Elbana

Irrigation Engineer | Landscape Engineer | Agriculture Engineer

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Senior Irrigation & Agriculture Engineer with 5+ years of proven experience in designing implementing, and managing advanced irrigation and drainage systems for large-scale urban, agricultural, and infrastructure projects. Expertise in smart irrigation controls, pump station operation, hydraulic modeling, and sustainable water resource management. Strong track record of delivering high-quality, cost-effective solutions on time, meeting international and GCC standards. Skilled in cross-functional coordination, technical documentation, and client relationship management.

Education

2020 **Bachelor's Degree in Agricultural Engineering**
Faculty of Agriculture, Menoufia University

Work History

2023 - Current **Senior Irrigation engineer**
Nabatat Company – Madinah, Saudi Arabia

Is Responsible for:

- Designing and implementing the irrigation and Agriculture for Al-Jabal Park in Madinah with a total area of 110,000 m².
- Supervising irrigation and Agriculture works on Al-Salam Road leading to Al-Masjid An-Nabawi.
- Executing irrigation and landscaping works for five gardens in Al-Areed District, Madinah.
- Monitoring technical teams and coordinating all execution phases until final project handover.

2021 - 2022 **Landscape & Irrigation Engineer**
Emaar Contracting Company – New Administrative Capital, Egypt

Was Responsible for:

- Designing and implementing irrigation networks for construction projects and public gardens.
- Preparing engineering drawings using AutoCAD and RanCAD.
- Coordinating between landscaping and contracting teams to ensure compliance with technical specifications and standards.

2020 - 2021 **Agricultural Engineer**
Al-Farouk Company – Egypt

Was Responsible for:

- Supervising agricultural operations and irrigation networks in major agricultural projects.
- Monitoring soil quality and irrigation systems and enhancing productivity.
- Following up on agricultural plans and ensuring adherence to safety and quality standards.

Training & Certificates



- Principles & Design of Irrigation Networks in Gardens and Roads | Hunter University | June 2024
- Ran CAD Course | ATC | May 2022
- Engineering Drawing Using AutoCAD Application | ATC | May 2022
- Designing and Installation of Modern Irrigation Systems with AutoCAD Applications | ATC | April 2022
- PRMG-1000: Fundamentals of Project Management | The American University in Cairo | October 2020

CORE COMPETENCIES

- Advanced Irrigation System Design (Drip, Sprinkler, Bubbler).
- Smart Irrigation & Automated Control Systems.
- Hydraulic Modeling & Water Management (WaterGEMS, InfraWizard).
- Pump Station Operation & Maintenance.
- Landscape & Softscape Implementation.
- BOQ Preparation & Cost Estimation.
- Microsoft Excel, Word, and PowerPoint.
- Preparing technical drawings.
- CAD Drafting (AutoCAD, Revit 3D, RainCAD).
- Quality Control & Site Supervision.
- Sustainable Landscaping Solutions.
- Project Scheduling & Multidisciplinary Coordination.
- Designing the agricultural plan and choosing the right plants.
- Supervising the agricultural works on site.

Personal Skills

- Time Management
- Teamwork
- Effective Communication
- Leadership
- Problem Solving
- Negotiation
- Flexibility

Languages

- Arabic: Native
- English: Excellent
- France : Beginner

Technical tools

- AutoCAD | RainCAD | Revit 3D | WaterGEMS