

Nouran Alaa El-Deen Abdullah

Irrigation & Landscape Technical Office Engineer

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Professional Summary

Recent Agricultural Engineering graduate from Cairo University with a strong interest in irrigation and landscape technical office work. Skilled in irrigation system design, hydraulic calculations, pipe sizing, product selection, pump selection, and preparation of irrigation layouts. Proficient in industry-standard software and irrigation manufacturers' catalogs, with a passion for delivering efficient and sustainable irrigation solutions.

Education

Faculty of Agriculture, Cairo University (2022-2026)

Department of Agriculture Engineering

GPA: B+

Internships & Trainings

Designing and Installation of Modern Irrigation Systems with A.CAD and Rain CAD Apps

Aghakhan Scientific Group (ASG), Online (45 training hours) (Feb 2026 – May 2026)

- Irrigation product selection and specification.
- Irrigation network design including sprinklers, valves, pipelines, and main lines.
- Pump sizing and irrigation system layout preparation.

Engineering Drawing Using A.CAD and Rain CAD App

Aghakhan Scientific Group (ASG), Online (35 training hours). (Feb 2026 – Mar 2026)

- AutoCAD drafting and technical drawing.
- RainCAD irrigation design and layout preparation.
- Preparation of irrigation plans and design drawings.

Training Course in Designing with Auto Cad Apps

Auto Group (Oct 11, 2024)

- AutoCAD fundamentals.
- Basic landscape and irrigation drawing concepts.

Summer Training in Electronics and Arduino Programming

Agricultural Research Center (ARC), Dokki, Egypt. (Sep 2024)

Summer Training in Renewable Energy

Agricultural Research Center (ARC), Dokki, Egypt. (Sep 2024)

Skills

Technical Skills: Landscape & Irrigation Design, Plant Water Requirement Estimation, Irrigation Zoning, Product Selection & Specification, Irrigation Network Design, Hydraulic Calculations, Pipe Sizing, Pump Selection, Irrigation Layout Preparation.

Software Skills: AutoCAD, RainCAD, WaterGEMS, Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Canva.

Technical References: Rain Bird Catalog, Hunter Catalog

Graduation project

Production of Biochar from Agricultural Wastes. The project aims to:

- Designed and implemented a field-scale reactor for biochar production using slow pyrolysis under oxygen-limited conditions and indirect heating.
- Applied engineering principles to convert agricultural residues into high-quality biochar through an environmentally sustainable process.
- Contributed to sustainable agricultural waste management by developing an eco-friendly alternative to open-field burning.
- Developed a practical solution suitable for farm-scale application with improved productivity and environmental benefits.

Languages

Arabic: Native language.

English: Very good