

# Ahmed Saleh Zaitoon

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| Phone: +20 155 623 2672

Location: Kafr Dawar, Beheira, Egypt

| Military Service: Completed

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| Marital Status: Single

## About Me

Results-driven Civil Engineer specializing in steel detailing, 3D modeling, and BIM software development. Proven expertise in bridging the gap between design and construction using Tekla Structures and Revit. Creator of a successful suite of Tekla Open API applications (AZ Tools, AZ Nesting, AZ Reports, etc.) used by international clients to automate repetitive tasks and improve detailing efficiency. Adept at delivering high-quality shop drawings for fast-track global projects while continuously optimizing operational workflows.

## Education

**BSc in Civil Engineering** | Alexandria University, Egypt - Class of 2022

- **Overall Evaluation:** Very Good
- **Graduation Project:** Steel Structures - Design of an Industrial Building (Grade: Excellent)
- Designed and detailed a steel industrial factory utilizing Tekla Structures, AutoCAD, SAP2000, Excel, and IDEA StatiCa.

## Skills

- **Main Tools:** Tekla Structures, Autodesk Revit, VS Code, Antigravity
- **BIM Development & Automation:** C# (Tekla Open API), Grasshopper, Dynamo
- **Analysis & Coordination Tools:** Navisworks, SAP2000, ETABS, IDEA StatiCa
- **Drafting & Office Tools:** AutoCAD, Microsoft Excel, Word
- **Languages:** Arabic (Native), English (Excellent working proficiency)

## Professional Experience

### Steel Detailer | Infinity Steel (Al Amriya, Alexandria)

March 2024 - Present

- Produce highly accurate shop drawings, including fabrication and erection drawings, for complex steel structures.
- Utilize Tekla Structures for 3D modeling, BOM generation, and clash coordination with Revit and Navisworks.
- Develop and publish commercial Tekla Structures plugins using C# to automate repetitive detailing tasks and drastically improve team efficiency.
- Deliver reinforcement shop drawings using Autodesk Revit for fast-track submittals.
- Assist the estimation team with proposals, material take-offs, RFI handling, and drawing revisions based on client feedback.
- **USA Projects:** Produce detailing for architectural and structural elements (false ceilings, handrails, gratings, dunnages, secondary steel) ensuring strict compliance with NYSCA and AISC standards.
- **KSA Projects:** Detail industrial pipe racks and platforms, ensuring seamless coordination with piping and equipment layouts.

### Software Developer | AZ DEV. (Self Employed)

April 2025 - Present

- Produce Practical Windows Application and Plugins for Tekla Structures to Automate, Optimize and improve Productivity, our apps include but not limited to:
  - 1- **AZ Nesting:** Advanced Cutting Application integrated Directly with Tekla Structures, Minimizes material waste and Generates PDF, Excel, and DXF reports in one run.
  - 2- **AZ Clashing Manager:** Advanced Clash Detection & Management with custom grouping, color coding, visual isolation, and persistent workflows.
  - 3- **AZ Reports:** Professional Tekla Reporting, Generate multiple report types in one run, generate an Organized Excel & PDF Output.
  - 4- **AZ Hanger Builder:** Generate and Build Hanger with a 3D preview, with bracing, Purlins, Side Girts and Mezzanine floors fully automated and parametric.

### Military Engineer | Egyptian Armed Forces Engineering Authority

March 2023 - March 2024

- Executed construction and maintenance tasks across various military projects.
- Gained hands-on site experience in project execution, discipline, and high-stakes teamwork.