Esraa Elragas

+36306968773 | asso.alaghory@gmail.com | Budapest, Hungary | Student Residence Permit

Experienced civil engineer specializing in industrial system design and tender documentation. Skilled in managing and updating BIM project documentation to ensure full compliance with permits and client specifications. Proficient in 3D modeling and structural design, with a proven ability to support architectural objectives through detailed analysis and collaborative teamwork. Adept at leveraging advanced tools like Revit and Navisworks to deliver precise and efficient project outcomes.

Skills

Technical Skills: MS Office, Revit, AutoCAD, BIM Software, Navisworks, Archicad.
Engineering Tools: Axis-VM, ConSteel Joints, MathCAD, FEM-Design.
Core Competencies: Solution proposal development, cost evaluation, technical communication, analytical thinking, problem solving, team collaboration, Applications Engineer.

Work Experience

May 2023 – April 2025

CAD Designer
Minimax Hungária kft *Budapest, Hungary*

- Specialised in the design of comprehensive sprinkler systems, including wet, dry, and foam variants, as well as pipelines, fire alarm rooms, and hydrants tailored for industrial, warehouse, and rack spaces.
- Developed accurate technical documentation for industrial projects, ensuring compliance with company standards.
- Collaborated with engineering and sales teams to produce solution proposals tailored to client specifications.
- Managed project documentation, schematics, and shop drawings using BIM software, ensuring precision and adherence to industry standards.

Aug 2022 – May 2023

CAD Designer Intern
Minimax Hungária kft *Budapest, Hungary*

- Training program in BIM software focused on sprinkler extinguishing systems.
- Member of the BIM group, participating in the basic design and conceptual design phases of the CATL project.

Education

Hungarian Language and Culture *Feb 2025 – Present*
University of Szeged *Szeged, Hungary*

MSc Structural Engineering *Sep 2021 – Jan 2024*
Budapest University of Technology and Economics *Budapest, Hungary*

- Thesis: Structural behavior analysis of the Pannon Park Biodome using AXISVM software, focusing on the impact of reduced beam elements on performance.
- Conducted robustness testing and structural analysis, ensuring comprehensive documentation.
- Graduated with a GPA Good.

Bachelor of Science Degree Program in Civil engineering *Sep 2016 – June 2021*
Budapest University of Technology and Economics *Budapest, Hungary*

- Thesis: Design and structural analysis of a 30×30m steel frame car dealership using AutoCAD, Axis-VM and Consteel joints software.

- Prepared architectural plans, technical drawings, and detail designs for project documentation.
- Graduated with a GPA Good.

Recommendation Letter

Budapest University of Technology and Economics

Prof. Bagi Katalin bagi.katalin@emk.bme.hu

Dr. Nedli Peter nedli.peter@eik.bme.hu Budapest University of Technology and Economics

Course

Coursera

Autodesk Certified Professional Revit for Structural Design

Languages

Arabic, English

MŰEGYETEM 1782

Letter of Recommendation

I would like to recommend **Esraa Elragas** who was one of my favourite and most promising students in my courses "Introduction to Strength of Materials" and "Strength of Materials". When she started with me, her values could not be seen yet: she was in a very difficult situation since her background knowledge from previous studies did not sufficiently prepare her for our courses. In the first semesters at our university, she had to fight very hard even to not completely fail with the university studies. I first realized her values when, still at the beginning of "Introduction to Strength of Materials", I got to see that in spite of so many difficulties and even failures, it was simply out of question for her to give up. She came to us to the department week by week asking for extra consultations to make up the shortages of her preliminary knowledge; she clarified even the smallest issues in the theoretical backgrounds, solved more practicing examples than any student I have ever seen, and month by month, she became better and better. When she arrived to the "Strength of Materials" course (which is one of the most difficult courses of our curriculum for structural engineering), she was already among the best students. Finally, she finished the course with the best grade.

It is not only her remarkable persistence what makes her so valuable as an employee. From professional point of view, her abilities and her sensitivity and conscientiousness to every small detail are particularly useful in the engineering profession. She works beautifully: one should see how her course lectures notes look like in order to get a basic impression what to expect from her as an engineer. In addition, she is a really likeable person to work with – she is nice and polite, and to those she gets to trust, she shows her friendly personality.

I can recommend her without any reservations. Please do not hesitate to contact me if you want to check the authenticity of this letter or if you have questions about Esraa.

Budapest, 15 August 2021

Katalin Bagi

Katalin Bagi, DSc, Dr Habil
full professor
Department of Structural Mechanics
Budapest University of Technology and Economics
kbagi.bme@gmail.com

BUDAPESTI MŰSZAKI ÉS GAZDASÁGTUDOMÁNYI EGYETEM
BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS
Építőmérnöki Kar — Faculty of Civil Engineering
Tartószerkezetek Mechanikája Tanszék — Department of Structural Mechanics
H -1521 Budapest, Műegyetem rkp. 3. Hungary
Tel: (36-1)-463-1161 Fax: (36-1)-463-1099

Budapest, 01 06 2021

Dr. Péter NÉDLI
Retired Associate Professor
Department of Structural Mechanics
BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS
e-mail: nedli.peter@eik.bme.hu
Tel.: (00 36 1) 463 13 45
Fax.: (00 36 1) 463 10 99

Subject : Recommendation letter

To whom it may concern

I taught ***Esraa A. O. Elragas*** the subject of *Structural Analysis II* which includes the matrix method of structures and finite element modelization. She showed continuous interest for the subject and made her homeworks with great care. I have found her an intelligent and conscientious student so I fully support her application to continue her studies for the Master degree.

Dr. Nédli Péter

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Dr. Péter NÉDLI

AUTODESK

COURSE CERTIFICATE

Feb 8, 2022

Esraa A.O. Elragas

has successfully completed

Autodesk Certified Professional: Revit for Structural Design Exam Prep

an online non-credit course authorized by Autodesk and offered through Coursera

Andrew Anagnost, President and Chief Executive Officer of Autodesk, Inc.

Verify at:
coursera.org/verify/J7RS8VW8NFCS

Coursera has confirmed the identity of this individual and their participation in the course.