

LEMI FEDASA

CIVIL ENGINEER

ABOUT ME

I am a highly motivated civil engineer with a background in software engineering. Possessing a deep understanding of construction principles, materials science, and project management, I am committed to delivering innovative and sustainable civil infrastructure solutions. Proficient in industry-standard design and analysis software, I have the technical skills to tackle complex challenges across the full lifecycle of civil engineering projects. My versatile skill set allows me to contribute to a wide range of civil engineering disciplines, from transportation and water resources to buildings and environmental systems.

EDUCATION

Bachelor of Science in Civil and Environmental Engineering

Addis Ababa
University University I
2019-2024

SKILLS

Etabs



Programming



Safe



Primavera P6



Microsoft Excel



Autocad



Civil 3D



Microsoft Project



CONTACT

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LANGUAGES

ENGLISH

Speaking
Writing
Reading
Listening

AMHARIC

Speaking
Writing
Reading
Listening

AFAAN OROMO

Speaking
Writing
Reading
Listening

HOBBIES AND INTERESTS

Reading

Gym Workouts

Community Volunteering

Film and Cinema


Portfolio Website QR
Code



EXPERIENCE

- Supported senior engineers in performing site inspections and overseeing construction advancement.
- Employed AutoCAD software to produce comprehensive 2D and 3D technical illustrations.
- Maintained communication with the engineering team and various contractors.
- Managed additional tasks as required.
- Possesses a solid grasp of engineering principles and construction methods.

CIVIL ENGINEER INTERN
MAY 2023 - AUG 2023 ·
FOR 4 MONTHS

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- Successfully finished an immersive software engineering program concentrating on full-stack software development, algorithms, and data structures.
 - Proficient in structural analysis and design utilizing Etabs and Safe software.
 - Proficiency in programming languages like Python and JavaScript.
 - Capable of creating and managing civil engineering software applications.
 - Creation of automated software for takeoff and bar schedule generation.
 - Design and analysis of beams and columns according to EN ES code.

QCIVIL DEVELOPER
AUG 2023-OCT 2023
FOR 3 MONTHS

EXPERIENCE

- Thesis Title: "Automating Structural Analysis and Design of Reinforced Concrete Beams and Columns"

Summary: Developed an automated framework to streamline the structural analysis and design process for reinforced concrete beams and columns. The study focused on implementing advanced algorithms and software tools to improve efficiency and accuracy.

1. How can a computer program be developed to facilitate the analysis and design of reinforced concrete beams and columns based on the EBCS CODE, considering indeterminate structures, shear-moment diagrams, and design requirements?
2. How can a computer program assist in the design of economically optimized sections for reinforced concrete columns and beams, allowing users to input trial cross-sections, evaluate their performance, and select the most cost-effective section based on defined criteria?

Findings and Results:

- Successfully developed an automated framework that significantly reduced the time required for the structural analysis and design of reinforced concrete beams and columns.
- Achieved enhanced accuracy and consistency in the design process by eliminating manual errors.
- Demonstrated the potential of automation to improve productivity and efficiency in civil engineering practices.

B.sc, Civil and Environmental
Engineering,
2019-2024
Addis Ababa University



TRAININGS AND CERTIFICATIONS



AutoCAD Certificate

Issued by: Mindluster

Description: Description: Certified in AutoCAD, proficient in creating precise technical drawings for architectural and engineering projects, including 2D and 3D design.



Road Design using Civil 3D Certificate

Issued by: Mindluster

Description: Completed training in road design using Civil 3D software, demonstrating expertise in creating detailed road layouts, cross-sections, and grading plans for civil engineering projects.



Project Management Foundations Certificates

Issued by: PMI, and NASBA

Description: Certification of completion in project management foundations, showcasing knowledge in project management methodologies and principles.



Primavera Training Certificate

Issued by: Smart PM Training

Description: Certified in Primavera, equipped with advanced project management skills including project scheduling, resource allocation, and critical path analysis, under the guidance of industry expert Osama Saad.



Power BI Certificate

Issued by: Simplilearn

Description: Proficient in data visualization and business intelligence using Power BI, capable of creating interactive reports and dashboards to analyze and present data insights effectively.



Microsoft Project Certificate

Issued by: Master of Project Academy

Description: Skilled in project planning and management using Microsoft Project software, with expertise in creating project schedules, tracking progress, and managing resources to ensure project success.





VOLUNTEER AND ADDITIONAL CERTIFICATES



Certificate of Appreciation

Issued by: Addis Ababa University

Description: Recognizes help provided to the elders of Addis Ababa community with low income in reconstructing severely damaged houses.



Certificate of Participation

Issued by: Addis Ababa Student Union

Description: Recognizes participation in a cleaning campaign organized by the Addis Ababa Student Union.



Certificate of Participation

Issued by: Arada Subcity Werada 6 Administration

Description: Acknowledges participation in community development activities.



Full Stack Software Engineering Certificate

Issued by: ALX Africa

Description: Successfully completed a rigorous software engineering program covering software development methodologies, programming languages, and best practices in software design and development.



Graphics Certificate

Issued by: California Institute of the Arts

Description: Demonstrates proficiency in graphic design principles and software tools.



Fundamentals UX/UI Design Certificate

Issued by: Google

Description: Certification in the Fundamentals of UX/UI from Google by Coursera, showcasing knowledge in user experience and user interface design principles.



RECOMMENDATIONS AND REFERENCES

REFERENCES

Dr. Abrham Gebre (Ph.D)
Associate Professor in Civil Engineering
Dean, School of Civil and Environmental Engineering
Addis Ababa Institute of Technology
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Dr. Yonas Minalu Emagnu (Phd)
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of AAiT,
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RECOMMENDATIONS

1. Dr. Abrham Gebre (Ph.D):
"His dedication to engineering and ability to thrive in challenging environments will enable him to excel."
2. Dr. Geremew Sahilu (Ph.D):
"Considering his performance at the undergraduate level, I have no doubt that he has the capacity to carry out pertinent professional activities."
3. Dr. Yonas Minalu Emagnu (Phd):
"What sets Mr. Lemi Fedasa apart is his exceptional work ethic and determination. He approaches challenges with a positive attitude, is quick to grasp new concepts, and exhibits an exceptional ability to work both independently and collaboratively."