

# Fawaz Abdulaziz AL-Bussaili

Riyadh, Saudi Arabia

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## OBJECTIVE

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Recent Civil Engineering graduate from the University of South Florida with a solid foundation in structural design, including superstructure, substructure, and construction planning. Eager to apply academic knowledge and hands-on project experience in an entry-level position contributing to infrastructure development. Committed to professional growth in structural analysis and design, with focus on high standards and precision.

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## EDUCATION

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**Hillsborough Community College** | *Associate of Arts*

*Tampa, FL* | **01.2018 – 05.2021**

- Named to the Dean's List for 7 semesters.
- Graduated with High Honors.
- **GPA:** 3.84/4.00.

**University of South Florida** | *Bachelor of Science in Civil Engineering - Structural Focus*

*Tampa, FL* | **08.2021 – 12.2024**

- Relevant Coursework: Structural Design, Construction Management, Concrete Construction Materials, Mechanics of Materials, Materials Engineering, Concrete Design, Steel Design, Geotechnical Engineering, Geology for Engineers, Engineering Land Surveying, Ethics for Engineers.
- Member, Steel Bridge Design in Civil Engineering Club.
- Cumulative **GPA:** 3.35/4.00.

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## SKILLS

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### Analytical Skills

Structural load analysis.  
Calculation of shear, moment, live-loads, dead-loads, and wind-loads.  
Fatigue analysis and force calculations.  
Quantitative reasoning.  
Critical thinking.

### Software Tools

AutoCAD, FLPier, QConBridge, MATLAB, Mathcad, Excel, Word, PowerPoint.

### Interpersonal & Communication

Effective communication.  
Fluent in Arabic, English, and Japanese.  
Eager to learn.  
Problem solver.  
Team work.

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## PROJECTS

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**Project at University of South Florida** | **Capstone Project: Preliminary Bridge Design Over I-75, Hillsborough County**

- Collaborated in a 6-member team to design a cost-optimized 3-span steel girder bridge crossing I-75 in Tampa, Florida.
- Conducted superstructure and substructure design using AASHTO LRFD standards, QConBridge, FLPier, and Excel.
- Performed load calculations, girder sizing, slab and overhang reinforcement design, and fatigue checks.
- Developed column, footing, and drilled shaft layouts with geotechnical considerations.
- Iterated design for structural safety, constructability, and cost, providing the total cost estimate of the project.

**Project at University of South Florida** | **High-Strength Concrete Cube Design – Concrete Construction Materials Course**

- Designed multiple concrete mixes for 2"x2"x2" cube specimens targeting high strength under 200g mass.
- Evaluated resistance to moderate sulfate exposure using ASTM C494/C1017-compliant admixtures.
- Iteratively modified mix designs to optimize strength-to-weight ratio and durability.
- Analyzed material performance through graphical data, comparing strength versus mass across trials.
- Produced the top-performing concrete cubes in class project, outperforming peers in concrete mix design.
- Collaborated in a 3-member team, leading testing, result interpretation, and final presentation.