

Awrad S. Ashour

P: (814) 777-8885

[LinkedIn](#)

E: ashourawrad@gmail.com

Design and Analysis | Budgeting | Schematic Diagrams | Scheduling | Research Skills | AutoCAD | Revit | Estimation | Construction Drawings | Quality Control | Civil 3D | Project Estimates

Civil Engineering

Education:

- **The Pennsylvania State University, University Park, PA:** Bachelor of Science in Civil Engineering | **GPA: 3.27** **Dec 2022**
- **Relevant Course Work:** Advanced Structural Design, Design of Steel Structures, Design of Concrete Structures, Professionalism Engineering Economics and Construction Project Delivery

Academic Projects

Advanced Structural Design Project

Spring 2022

- Designed a steel building and developed a two-story office area.
- Assessed the building frame components adequacy and produced structural drawings.
- Conducted hand and SAP2000 calculations to support the analysis of the conceptual, preliminary phases, and final design.

Technology Based Entrepreneurship Project

Spring 2022

- Used junkyard materials to create a working prototype of a product that solves an environment problem.
- Possesses a strong ability to identify productivity areas & increase operating efficiencies by implementing custom design solutions.
- Created a product to clean up the trash in beaches to solve the environmental pollution problem and utilized complex features to make it feasible such as filtering the sand out and using the pulley system.

Machine Learning Research

Summer 2021

- Trained to use new software programs such as Java to familiarize with the research.
- Conducted research in the area of the combination of computational mechanics and machine learning.
- Studied Physics-Informed Neural Networks (PINN) by formulating and applying the momentum balance and constitutive relations to a linear elastostatics problem; illustrated framework was then applied to non-linear problems.

Revit Apartment Model Development

Fall 2019

- Developed a detailed apartment model using the BIM software Revit.
- Implemented to scale measurements and final material and furniture finishes to the 3D model.
- Created a drawing sheet showing the floor plans, elevations, building sections, and a 3D interior perspective.

Technical Skills

- **Analytical Skills:** Planning project strategies, handling unexpected issues, and solving other problems arising in the construction project, estimating the cost, materials, and time to complete the project.
- **Business Skills:** Coordinate, negotiate on cost matters, and build an effective relationship with colleagues.
- **Customer Service:** Excellent customer service skills, maintaining direct contact with the owners, inspectors, and the general public. Create effective relationships with them, help in business opportunity generation by ensuring their needs.
- **Communication Skills:** Clear communication with colleagues and explain complex information, discuss technical details with other building specialists as well.
- **Leadership:** Effectively delegate tasks to team, responsible for taking initiative, making effective decisions concerning the needs of project, communicating the same to the workers.
- **Interpersonal Skills:** Self Motivated, Fast learner, Strong Internet Research, Excellent Verbal, Written and Quantitative Skills, Time Management and Prioritization Abilities, Effective Presentation Skills, Leadership and Team Spirit.

Others

Memberships:

NUKS Careers and Internships

Spring 19-20

- Represented Kuwaiti students studying in the US, connected them to internships and job opportunities
- Provided guidance through application processes for prospective companies
- Helped with resume building by paying attention to the details of the companies' requirements

Kuwaiti Student Association at The Pennsylvania State University

Fall 2019

- Treasurer of the Kuwaiti Student Association, was in charge of the club's finances
- Managed meetings with group members to create a timeline of future activities

Thon Volunteer

Fall 2018

- Volunteered for canvassing weekend benefiting thon by raising money for donation for children and families diagnosed with cancer