

AMR S. ALLAM

CONSTRUCTION AND BUILDING ENGINEERING

GLEM
ALEXANDRIA,
EGYPT

Phone: +201004509490
Email: amr.s.allam@aast.edu
amr111allam@gmail.com

SUMMARY OF QUALIFICATIONS

Skilled in, Python programming language, Statistical Analysis through Factor Analysis and Regression Models, Management Science of Linear Programming, Metaheuristics Algorithms, and Multi-Criteria Decision-Making of both Value-based and Outranking methods, Building Information Modeling (BIM), and building performance simulation. Experienced in developing Decision-Making Plugins for parametric design software to enhance the process of performance-based design. Superior leadership talents relating to team initiatives, staff supervision and project management. Exceptional research and analytical skills with the ability to present complex technical results in clearly understandable technical reports and presentations. Proficient user of Python, SPSS, Rhinoceros, Grasshopper, Revit, Dynamo, ArchiCAD, Primavera P6 Professional, Primavera Risk Analysis, and AutoCAD.

Core Competencies:

- ☐ Consulting
- ☐ Team Player
- ☐ Innovative Thinking
- ☐ Problem Solving
- ☐ Meeting Deadlines
- ☐ Multitasking

EDUCATION

& CREDENTIALS 2020	ARAB ACADEMY FOR SCIENCE & TECHNOLOGY & MARITIME TRANSPORT - ALEXANDRIA, EGYPT M.Sc., GPA 3.96, Construction & Building Engineering (Major: Construction Engineering & Management) <i>Thesis: Enhancing the Design Process for Optimized Daylighting, Energy, and Cost in Buildings.</i>
2018	ARAB ACADEMY FOR SCIENCE & TECHNOLOGY & MARITIME TRANSPORT - ALEXANDRIA, EGYPT Professional Diploma in Digital Marketing
2016	ARAB ACADEMY FOR SCIENCE & TECHNOLOGY & MARITIME TRANSPORT - ALEXANDRIA, EGYPT B.Sc. (with honors), GPA 3.99, Construction and Building Engineering <i>Graduation Project: Application of Project Management Techniques, 4D Simulation and Augmented Reality to Construction Project (Markaz Mall & Hotel, Kuwait).</i>

ACADEMIC

EXPERIENCE

(9/2016–
Present)

ARAB ACADEMY FOR SCIENCE AND TECHNOLOGY - ALEXANDRIA, EGYPT
Teaching and Research Assistant

Academic activities included conducting weekly tutorials, office hours, and grading the following undergraduate courses and laboratories:

CB 221: Construction Engineering Drawings
CB 312: Systems Analysis for Construction Engineers
CB 313: Quality Control in Construction
CB 326: Building Information Modeling
CB 415: Quantity Surveying, Cost Estimating & Specifications
CB 510: Project Management & Scheduling
CB 514: Construction Contracts & Law
CB 516: Construction Project Management I
CB 519: Construction Project Management II
CB 523: Methods & Equipment for Construction I

PUBLICATIONS

Allam, A. S., Bassioni, H. A., Kamel, W., & Ayoub, M. (2019). "Metaheuristic optimization of daylighting and energy performances in office spaces." IOP Conference Series: Earth and Environmental Science, 397.

Allam, A. S., Bassioni, H. A., Kamel, W., & Ayoub, M. (2020). "Estimating the standardized regression coefficients of design variables in daylighting and energy performance of buildings in the face of multicollinearity." Solar Energy, 211, 1184–1193.

AMR S. ALLAM
CONSTRUCTION AND BUILDING ENGINEERING

**COMPLETED
GRADUATE
COURSEWORK**

(Fall 2016 -
Spring 2018)

M.Sc. Coursework

Arab Academy for Science and Technology and Maritime Transport (AASTMT) - Alexandria, Egypt

CB 712: Advanced Construction Management
CB 718: Financial Management in Construction
CB 745-S: Composite Structures
CB 710-C: Construction Productivity
CB 713: Construction Equipment Management
CB 712-C: Research Methods in Construction. Engineering & Management
CB 710: Advanced Construction Engineering
CB 719: Construction Economics & Feasibility Study
CB 750: Transportation Planning and Management

**ATTENDED
SHORT COURSES
AND
WORKSHOPS**

Department of Architecture, The American University in Cairo (AUC), November 28th, 2019
Simulation for Sustainable Built Environment Workshop #1: Building Performance Inspection using Drones.

Department of Architecture, The American University in Cairo (AUC), November 29th, 2019
Simulation for Sustainable Built Environment Workshop #2: How to Choose the Best Weather Data Set for Building Performance Simulation, Methodology and Methods.

Department of Architecture, The American University in Cairo (AUC), November 30th, 2019
Simulation for Sustainable Built Environment Workshop #3: ENVI-met V4.0 & Parametric Techniques, Urban Simulations in Present & Future.

Arab Academy for Science and Technology and Maritime Transport (AASTMT), 15th – 16th July 2019
Academic Writing Skills for Graduate Students.

Department of Architecture, Arab Academy for Science and Technology and Maritime Transport (AASTMT), 19th – 20th June 2019. Parametricism and Built Environment.

**SCHOLARSHIPS
AND AWARDS
(09/2011 -
07/2016)**

Arab Academy for Science and Technology and Maritime Transport (AASTMT) - Alexandria, Egypt
Academic Distinction Award (10 Semesters)
Merit-based scholarship, renewed per semester based on maintaining the highest-class GPA

**PROFESSIONAL
TRAINING AND
DEVELOPMENT
(2018)**

Arab Academy for Science and Technology and Maritime Transport (AASTMT) - Alexandria, Egypt
Training Course for Teaching Assistants

**PROFESSIONAL
AFFILIATIONS**

Reviewer, Indoor and Built Environment Journal
Member, International Building Performance Simulation Association of Egypt (IBPSA-Egypt)

**COMPUTER
SKILLS**

Python, SPSS, Rhinoceros, Grasshopper, Revit, Dynamo, ArchiCAD,
Primavera P6 Professional, Primavera Risk Analysis, and AutoCAD.

**LANGUAGE
SKILLS**

Strong technical writing, verbal communication, and presentation skills in both English and Arabic languages.