

# RESUME

Current Position: Architectural Design BIM Lead,  
**AECOM**

Address: Hanover, MD, USA



**ZAKI MALLASI**  
**PHD, LEED BD+C**

Nationality: U.S. Citizen

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## CAREER OBJECTIVE

Seeking a full-time position in architecture with emphasis on translating project requirements into the project design; fostering a collaborative integrated project design process from conceptual phase through construction execution. I am technically sound and creative architectural designer with passion towards utilizing BIM technology, computational design, Integrated Project Delivery (IPD) and sustainability. Ideally, I wish that the position encourages innovative thinking to leverage my current expertise and allow long-term personal growth and career advancement.

I am dedicated to work with members from the design leadership, digital-technology practice groups and other research initiatives. I am committed to strategically contribute to the firm leadership in developing innovative design strategies for future projects. I am comfortable in leading design development and managing design production schedule to support architectural projects, because of both my professional and academic design studios teaching experience.






## PERSONALITY SNAPSHOT

I believe I have been blessed throughout my career with variety of skills that I gained from working in challenging positions and with professional people. It helped shaping my talent for design thinking process and project coordination skills. My personality evolved around these aspects:

- ❑ Communication: focusing on how to best represent ideas using open-minded conversation and interpersonal skills gained over the past 15 years of experience.
- ❑ Collaboration: by engaging with project team members and end-users in an interactive dynamic design process to understand the project needs.
- ❑ Originality: in ideas generation that reflects the vision, values and personality of the end-users and as a result of my experience in design research.
- ❑ Innovative: with constant drive to employ best approaches for designs, especially concerning: sustainability, BIM, construction materials, planning, passive design, environmental impact, design computation, and Parametric object modeling.
- ❑ Quality Driven: especially in QA/QC in project implementation, project coordination, contract administration, and execution process; ensuring accomplishment of project goals.




## EDUCATION

- 2000- 2004 ● PhD, 4D CAD/VR Visualization in Architecture and Construction Planning  
 University of Teesside, School of Science and Technology, Middlesbrough, UK
- 1998-1999 ● MSc Virtual Environments (VE), University College London, The Bartlett School of  
 Graduates Studies, London, UK
- 1991-1996 ● BSc Architecture, Grade: 2<sup>nd</sup> Class Honors, The University of Khartoum, Khartoum,  
 Sudan



## PROFESSIONAL EXPERIENCE

- Present ● Architectural Design BIM Lead, AECOM, Baltimore, MD, USA
- July. 2017 ●  

  - ❑ Participate in the development of conceptual design, with minor supervision, and works with the design Principal to generate a wide range of illustrations and unique technical details.
  - ❑ Participate with the design team in advancing the architectural project execution utilizing Revit/BIM execution plan.
  - ❑ Prepare and present with team the design presentation ideas to the client.
  - ❑ Assist in advanced BIM Modeling for specific design discipline and

architectural features.

- Effectively organize in-house BIM/Revit coordination meetings with architectural discipline project leaders.
- Work collaboratively with teams to implement the best use of digital technology including: BIM model management and workflow, Computational Design, Performance Design, Parametric Modeling, Design Visualization, and coordination in Navisworks clash detection.
- Research and resolve design software solutions and integration issues for a full range of architectural design and document production issues
- Organize in-house BIM/Revit project kick-off coordination meetings with AEC discipline project leaders in different offices as well as participate in webcast meetings for sharing with other AECOM regional offices.
- As a member of the project team, I may assist in the coordination the completion of construction documents to support design intent.

Projects: New VIP Airport Terminal [130,000sf, \$30M], Clark International Airport [450,000sf, \$175M], and Terminal Modernization Project [750,000sf, \$400M].

July 2017 ●  
Dec. 2011  
(part-time)



Architectural Lead Designer, Effat University, Jeddah, Saudi Arabia

- Worked on multiple campus building projects closely with our University Technical Committee (UTC) Engineers and as direct Adviser to the University President.
- Developed area program and use analysis, site landscaping and complete 2D/3D exterior façade design presentation from conceptual to design development in coordination with end-user goals.
- Provided technical guidance during the project development including selection and appointment of external consultants/contractors.
- Transformed the whole exterior design concept and building massing per client request and with support from external engineering consultants.
- Produced different building exterior façade design themes.
- Performing construction administration Activities, including site visits to review conformity of construction with design intent, evaluated performed works, reviewed sample of materials as in the specification, schedule tracking, and to initiate payment approval.
- Scheduled and attended weekly site meetings to monitor progress of work and to ensure coordination between all engineering disciplines and review any construction schedule discrepancy.
- Acted as main Client Advisor when reviewing contracts, tender packages, value engineering and assessment of any variation orders requests.
- With assistance from construction manager, I supervised the project handover and close-out items like (as built drawings, warranties, insurance policies, testing and commissioning and punch lists).

Projects: New Effat Library and Cultural Museum [70,000sf, \$14M], New School of Business [125,000sf, \$20M, in finishes tender phase], King Faisal District Revitalization proposal, and the New College of Architecture and Design competition.

Aug. 2011 ●  
Nov. 2006

PERKINS  
+ WILL

Architectural BIM Specialist (Architect III), Perkins + Will, Atlanta, USA.

- Assisted in Revit-BIM projects: production of the SD, DD and CD packages, building facade design, model-based pricing, prepared 2D/3D visualization, basic interior-exterior renderings, and PhotoShop presentation.
- Performed at schematic design phase environmental analysis including: shading/screens elements, solar exposure, LEED credits documentation, daylight analysis, and skin wall type material comparisons.
- Managed the virtual BIM model during the project phases and the bi-weekly meetings including: model exchange/coordination with consultants, and clash detection in Navisworks.
- Prepared the construction documents ensuring coordination of architectural design with structural and MEP consultants.
- Acted as main "Go-to" person in the office for the BIM model, and supervised the project kick-off session to formulate BIM execution strategy.

- Contributed to the Firmwide Excellence in Design Execution group, the Atlanta Green Team Initiative and delivered Lunch & Learn workshops on BIM and environmental digital design tools.
  - Coordinating design teams employing emerging digital technologies in architecture, design, and fabrication.
- Projects: Clayton and Therrell High Schools (Atlanta) [200,000sf, \$35M], Duke Medicine Pavilion (Durham) [600,000sf, \$600M], Macon Medical Center [Macon] [50,000sf, \$10M] and King Saud Bin Abdul-Aziz Medical Campus (Riyadh, Saudi Arabia).

Nov. 2006  
Aug. 2006



- Architectural BIM Specialist, RCMS Group, Atlanta, USA.
- Managed construction documents production and coordination, quality control, reviews, attended meetings with architect of record for coordination, and other duties involving the architectural services.
  - Acted as group leader, managing a team of junior draftsmen.
- Projects: Spellman College Student Residence (Atlanta) [150,000sf, \$25M]

Aug. 2006  
Aug. 2005



- BIM Manager, Bond Bryan Architects, Sheffield, UK.
- Developed working procedures and standards for implementing standard 3D Building Information Model (BIM) in the K12 projects using ArchiCAD.
  - Acted as a liaison and leader in BIM between its staff, management, consultants, and clients.
  - Managed the BIM model on the design process alongside the Education and Commercial market sector design group.
  - Worked with designers to produced 2D/3D visuals and helped in the architectural design process.
  - Mentored less experienced Architectural staff and offered advice and seminars on BIM topics.
  - Produced technical drawings and details at key design and development stages per building regulations.
  - Extended capabilities of BIM to produce environmental analysis using ECOTECT software.
- Projects: Bradford Academy School (Bradford, UK) [170,000sf, \$32M], ACES Furnival (Sheffield University, UK) [140,000sf, \$25M].

June 2004  
Aug. 2002  
(part-time)



- Web Designer, The University of Teesside, UK.
- Designed and developed an academic research web site to serve the effective operation of its members in the [VR-NET](#) academic research network.
  - Maintained the web pages information up to date.
  - Transformed page design ideas, layout and built all digital content (images, icons, logo, in HTML Dreamweaver).

April 2002  
Nov. 2001  
(part-time)



- Interactive Learning Technology (ILT) Designer, The Stockton Six Form College, Stockton-on-Tees, UK.
- Supported the Teachers and Students by designing an online [interactive lessons](#). The 3D [interactive lesson](#) materials were designed using Macromedia Flash, VRML, and 3D Studio Max, with the aim of raising standards in teaching Math, Art, and Physics using interactive technology.

July 2000  
April 2000



- Architectural Assistant, Arnold and Boston Chartered Architects, London, UK.
- Produced 2D working drawings for the new extension of Imperial War Museum [160,000 sf] [\$27M].
  - Under supervision of project architect, completed the construction drawings set in co-ordination with the design team, detail of floor plans, sections, provision of fire escape and life safety plans.

Aug. 1998  
March 1998



- Intern Architect, Zaki Farsi Architects and Planners, Jeddah, Saudi Arabia.
- Drafted and produced working drawings for the Al-Farsi Plaza office building (110,000 sf, \$15M Riyals).
  - Assisted in the documentation of technical specification.

Jan. 1997  
Nov. 1996



- Worked closely with the marketing department in the production of photorealistic renderings of office units, brochures, and 3D walkthrough.
- Helped in preparing outline specification, bill quantities and tender document.

Intern Architect, the Arabic Bureau Engineering Consultants, Jeddah, Saudi Arabia.

- Assisted the project designer in residential projects ranging from (3,200 sf to 4,300 sf) and prepared the design drawings.
- Developed plans, elevations, building and wall sections, enlarged plan details, door and finish schedules, roof plans, and reflected ceiling plans.



## ACADEMIC EXPERIENCE

July 2017  
Sep. 2011



Assistant Professor, College of Architecture and Design, Effat University, Jeddah, Saudi Arabia.

- Taught different levels of Architectural Design Studios (204, 305, 407, 408, and graduate capstone projects); Energy and Design; Construction Drawings; Revit basics and advanced applications of digital design computation.
- Contributed to research activities in the department by chairing the NCAAA Standard "10" research accreditation committee and helped in shaping the research road map as part of the overall all university research vision.
- Encourage collaborations with faculty, students and industrial partners, to extend research opportunities.
- Participated in the organization of the Department of Architecture Exhibition.
- Presented research at national and/or international levels.
- Develop and teach Design Technology courses at multiple levels.

Jan. 2010  
Jan. 2009  
(part-time)



Lecturer, GA Tech., College of Architecture, Atlanta, USA.

- Taught BIM Theory and Applications to architecture and building construction students. And assessed the work and progress of students.

July 2005  
June 2004



Construction CAD Research Developer, the Centre for Construction Innovation and Research (CCIR), University of Teesside, UK.

- Captured requirements for the design, development and creation of 3D/4D CAD/VR visualization and implementation in construction projects.
- Worked with SME engineering contractors towards the implementation of ICT solutions to engineering-business problems.

June 2003  
July 2000



PhD Researcher Fellow, the University of Teesside, Middlesbrough, UK

- Worked as a researcher in the VIRTUAL CONSTRUCTION (VIRCON) research project, a funded scholarship from UK EPSRC to investigate new 4D/CAD emerging technologies in construction project planning.
- The main project collaborators were UCL, University of Wolverhampton, and industrial partners like: Bond Bryan Architects, AMEC, ABB, and Balfour Beatty.



## FREELANCE CONSULTANCY

I provided variety of consultancy work for individuals and companies as part of my iConViz © freelance activities in: Revit Architecture Training, BIM Execution Planning, and Environmental Analysis I ECOTECT. Companies: RTKL (Washington DC Office), Lord Aeck Sargent(Atlanta), ASTI Applied Software (Atlanta), and Westall Architects (Atlanta).



## PUBLIC SPEAKING

July 2018

'Integrated Building Performance: Outlining the Workflow, Tools & Techniques Used by Architects & Engineers'. 2nd Advancing Computational Building Design, New York, USA.

- Nov 2016 ● 'Integrating Physical and digital Prototypes Using Parametric BIM in the Pursuit of Kinetic Façade', 8th ASCAAD 2016 International Conferences: Parametricism V. Materialism, SOAS, London, UK.
- April 2016 ● 'Rethinking the Discourse of Architectural Education Teaching Using BIM Technology', The 13th Learning and Technology (L&T) Conference, Effat University, Jeddah, Saudi Arabia.
- Dec. 2015 ● 'Prototyping Future Smart City Forms: Combining Sensory Technology and BIM Simulation to Visualize Environmental Impact', INCONET-GCC2, International Conference Collaboration for Innovation, Muscat, Oman.
- May 2015 ● 'New Effat Library and Cultural Museum Project Design Presentation', Inauguration and opening ceremony, Effat University, Jeddah, Saudi Arabia.
- Oct. 2012 ● 'Performance-Driven Façade Configuration: Parametric Thinking for Integrated Building Practice', AIA Middle East, Architecture and design Days, Jeddah, Saudi Arabia.
- Aug. 2008 ● 'BIM For Owners', in the Atlanta Association of Owners presentation and discussion panel, Atlanta, USA.
- June 2005 ● 'Virtual Reality and nD Construction Simulation Seminar', in the Association of Researchers in Construction Management (ARCOM), Middlesbrough, UK.
- April 2003 ● Workshop on 4D Visualization Development, at Balfour Beatty Contractors, London, UK.



## GRANTS AND AWARDS

- Dec. 2016 ● Responsive Facade Prototype – Integrating Environmental Receptors with Building Information Model, Effat University. Value: \$13,400, Duration: one year.
- Dec. 2015 ●
- January 2015 ● Design Excellence Appreciation Certificate for designing the New Effat Library and Cultural Museum, Effat University, Jeddah, Saudi Arabia.
- May 2014 ● Queen Effat Award for Excellence in Teaching, Architecture Department, Effat University, Jeddah, Saudi Arabia.
- Feb 2011 ● AWR: LOFT London Farm Tower Competition, Perkins + Will, Atlanta, USA. [<http://iconviz.com/blog/DDblog.php/2011/09/24/vertical-farming-competition-scheme>]
- Feb 2010 ● First Prize in 'Design School for the Socially-Aware Education', Support by Perkins + Will Innovation Incubator Grant Atlanta, USA. Value: \$1,000, Duration: one month. [<http://www.sociodesignfoundation.com/2010-2011-winners-for-integrat/>]
- May 2005 ● Co-recipient of the First Prize Award in Science and Technology, Business Plan Competition, University of Teesside, Middlesbrough, UK, Value: \$1,600.



## ORGANISATIONAL SKILLS

- April 2016 ● Organizing Co-Editor, ASCAAD 8th International Conference 'Parametricism V. Materialism', SOAS University, London, UK ([www.ascaad.org](http://www.ascaad.org)).
- January 2015 ● New Effat Library and Cultural Museum, project inauguration ceremony and building tour, Effat University, Jeddah, Saudi Arabia.
- April 2014 ● Scientific Co-Editor, ASCAAD 7th International Conference 'Digital Crafting', Effat University, Jeddah, Saudi Arabia ([www.ascaad.org](http://www.ascaad.org)).
- Nov. 2007 ● Scientific Co-Editor, ASCAAD Third International Conference 'Embodying Virtual Architecture', Bibliotheca Alexandria, Alexandria, Egypt ([www.ascaad.org](http://www.ascaad.org)).
- April 2006 ● Scientific Co-Chair, ASCAAD 2nd International Conference 'Computing in Architectural Design: Re-Thinking the Discourse', American Uni. of Sharjah, UAE.

**COMPUTER SKILLS**

Operation Systems	I am extremely comfortable with the use of 2D/3D digital design modeling, multimedia, and desktop publishing.
Multimedia	MS Office, Adobe Photoshop, InDesign, Macromedia Dreamweaver.
3D Apps.	Revit Architecture, Insight360, Sefaira, Bentley AECOSim, ECOTECT; Lumion Rendering, AutoCAD, ArchiCAD, SketchUp, 3D Studio MAX, Navisworks, Glue, Dynamo, and MS Project Schedule.
Programming	VRML, Virtual Reality, HTML, Revit API SDK C#, VB.NET, Arduino, and GDL.

**LIST OF PUBLICATION**

Published thirteen papers in international conferences, five articles in journal papers, three technical reports, and in recently a BIM article in the Building Design + Construction magazine (available at <http://www.iconviz.com>), and Google scholar profile (<http://scholar.google.com/citations?user=LHdSStkAAAAJ&hl=en>).

**INTERESTS AND HOBBIES**

Automobile magazines; music, travel; football; taekwondo; ping pong; swimming; carting; collecting stamps & coins; visit beautiful buildings and taking my family on road trips across the country.

**PROFESSIONAL ASSOCIATION**

- Autodesk ® Revit Architecture Certified Professional.
- LEED BD+C, (Leadership in Energy and Environmental Design) Accredited Professional, Atlanta, USA.
- Architectural ARE Registration License, working towards ARE registration exams.
- NAAB, (National Architectural Accrediting Board) Accredited, Washington DC, USA.
- NCARB (National Council of Architectural Registration Boards) record completed and working towards ARE licensure, Washington DC, USA.
- ACADIA Member (Association of Computer Aided Design in Architecture).
- ASCAAD Board of Directors Member and past elected President (Arab Society for Computer Aided Architectural Design).

References are available upon request.