

## **MAHBUB RASHID, PhD, AIA**

Associate Professor, Department of Design  
University of Kansas, 1467 Jayhawk Blvd., Suite 300, Lawrence, KS 66045  
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mrashid@ku.edu

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### **EDUCATION**

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#### **Ph.D. in Architecture, Georgia Institute of Technology, 1998**

- Thesis Title: "On the Configurational Studies of Building Plans: A Partial Theory of Configuration for Plans Not Involving Curves." Advisor: Dr. John Peponis. External examiners: Prof. Lionel March, UCLA and Prof. Bill Hillier, University College London
- Major field of study: History, Theory, and Criticism
- Minor field of study: Urban Design and Planning

#### **Master of Science in Architecture Studies, Massachusetts Institute of Technology, 1993**

- Thesis Title: "City Form and Changing Process: The case of the North End, Boston, 1860-1930." Advisor: Dr. William L Porter
- Field of Study: History and theory of architecture and urbanism in developing countries

#### **Bachelor of Architecture (B. Arch.), Bangladesh University of Engineering and Technology, 1989**

- Thesis Title: "Ramakrishna Math and Mission Temple Complex"
  - Graduated as the first class first
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### **PROFESSIONAL LICENSES AND CERTIFICATIONS**

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- Licensed Architect, Georgia, USA, 2003
  - Registered Member, American Institute of Architects, 2003
  - Registered Member, Institute of Architects, Bangladesh, 1993
  - Certified by the International Center for Facilities (ICF), Ottawa, Ontario, Canada, to rate building serviceability using Serviceability Tools and Methods (ST&M), 2003
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### **AWARDS AND ACHIEVEMENTS**

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- Faculty Research Integration Award, College of Architecture, Georgia Tech, 2005

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- *10-year Service Recognition* by the President of the Georgia Institute of Technology, 2003
  - *Co-owner and Co-developer of **Spatialist***, a software for the analysis of building plans. Copyrighted by the Georgia Tech Foundation (licensed to more than twenty universities around the world)
  - *Presidential Honoree as the Outstanding Graduate of the College of Architecture*, Georgia Tech, 1998
  - *Best Ph.D. Student and Thesis Award*, College of Architecture, Georgia Tech, 1997-98
  - *Aga Khan Program Scholarship*, Massachusetts Institute of Technology, 1991-1993
  - *Commonwealth Scholarship under the Commonwealth Scholarship and Fellowship Plan*, The Association of Commonwealth Universities in the United Kingdom, 1991
  - *Outstanding Student Award for Design and Academic Excellence*, Department of Architecture, Bangladesh University of Engineering and Technology, 1983-1989
  - *Habibur Rahman Scholarship for Design Excellence*, Department of Architecture, Bangladesh University of Engineering and Technology, 1986-87
  - *Ahsanur Rahman Scholarship for Design Excellence*, Department of Architecture, Bangladesh University of Engineering and Technology, 1985-86
  - *Best Design Award*, Design competition organized by the Chetana of Bangladesh, and the Aga Khan Program at the Massachusetts Institute of Technology and the Harvard University, 1984
  - *Outstanding Youth Recognition* by the President of the People's Republic of Bangladesh, 1980

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## **WORK EXPERIENCE**

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### **Associate Professor, Department of Design, University of Kansas, 2005-Present**

#### *Courses taught*

- INTD 205: Introduction to Interior design
- INTD 302: Fundamentals of Interior Design
- INDD 313: Visual Presentation
- ADS 580: Special Problems in Design

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## *Research*

Principal Investigator. "A study of the effects of physical design on learning outcomes in university classrooms." Approx. funding \$90,000. Sponsor: HermanMiller, Inc.

Principal Investigator. "Developing a Feature-Based Web-Tool for Adult Intensive Care Unit Design Evaluation - Phase I." Funded amount \$8000.00. The New Faculty General Research Fund (NFGRF) grant from the University of Kansas Center for Research.

Principal Investigator. "Interior Design Website." Funded amount \$2,500.00. Hallmark Faculty Enrichment Fund. Department of Design, School of Fine Arts.

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## **Research Scientist, Doctoral Program, College of Architecture, Georgia Tech, 2002-2005**

### *Courses taught*

- COA 8823: *Healthy Environments – Behavioral Issues in Healthcare facilities Design*. Spring 2005. Taught with Dr. Craig Zimring.
- COA 8902: *Advanced readings in architecture, culture, and behavior - Theories, models and methods*. Fall 2002, Fall 2003 & Fall 2004. Taught with Dr. Craig Zimring.
- ARCH 4303: *Programming and building evaluation*. Fall 2004. Taught with Dr. Craig Zimring.

### *Design Consultation*

Collaborated with Dr. Craig Zimring as a consultant for the new twenty-bed Neuro-ICU of the Emory University Hospital. We helped Emory define its goal for a world-class Neuro ICU with a focus on patient- and family-centered care. This project is probably one of the largest ICUs in the country, and Emory sees this as a test-bed for their new \$1B+ replacement project to be started by the end of this decade.

### *Co-PI*

- "Walking on Campus: Correlates and Web Tools." #RFA-ES-04-003. An Exploratory or Developmental Research Grant Award (R21). Approx. Amount: \$275,000. The National Institutes of Health (NIH).
- "Enhancing Organizational Dynamics and Productivity by Design." Funded Amount: \$131,000.00. Steelcase, Inc. ([www.steelcase.com](http://www.steelcase.com)).
- "Developing a Research Agenda for Studying the Impacts of the Physical Environment on the Quality, Safety, Efficiency, and Effectiveness of Health Care." Funded Amount: \$50,000. A Small Conference Grant. The Agency for Healthcare Research and Quality (AHRQ) and the

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Robert Wood Johnson Foundation (RWJF).

- “Integrated Behavioral Observation Technique Project.” Funded amount: \$60,000. The US General Services Administration. Completed in collaboration with DEGW ([www.degw.com](http://www.degw.com)).

*Research Team-member*

- “Developing Building Assessment Tools and Methods.” Funded amount: \$487,437.00. A Workplace 20.20 research project of the United States General Services Administration (USGSA) with the University of Michigan.
- “Comprehensive Multi-Media Web-Based Courts Information Database: PHASE III.” Funded Amount: \$969,350.90. The US General Services Administration.
- “Using Space Syntactical Studies to Develop Specifications of Effective Office Layouts.” Funded Amount: \$99,433. The US General Services Administration.
- “Creating the GSA Innovative Office Website and Database: Phase II.” Funded Amount: \$172,897.00. The US General Services Administration.

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**Staff Architect, Cooper Carry, Inc., Atlanta, Georgia, USA, 1999-2001**

Prepared architectural programs. Participated in concept developments. Prepared schematic designs, presentation drawings and construction documents. Performed due diligence on site. Coordinated with engineers and provided CA services during construction. Researched on materials, systems, and building codes and regulations. Developed and maintained a practical knowledge of building codes, fire codes, life safety codes and accessibility standards. Guided intern architects. Communicated directly with clients to achieve clients’ goals within budget constraints. Informed Principal-in-Charge of potential project opportunities. Communicated methods to improve project progress. Participated in review processes. Participated in professional/community organizations and activities.

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**List of Projects**

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| • Lindberg Plaza Master plan, Atlanta, GA              | • Houston Galleria, Houston, TX. GLA: 2.4 million SF (Estimated cost: \$144 million) | • Burdines at Wellington Green, West Palm Beach, FL |
| • Mayfaire Town Center, Wilmington, NC                 | • Broward Mall, Plantation, FL   | • Macy’s, Mall at Millenia, Orlando, FL             |
| • Mixed-Use Development at the Intersection of Powhite | • West Shore Plaza Shopping Mall, Tampa, FL  | • The Junction, 1600                                |

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and Chippenham Parkways, Richmond, VA	• Palm Restaurant, West Shore Plaza, Tampa, FL	Flatbush Avenue, Brooklyn, New York, NY
• Riverwood Master plan, Atlanta	• Burdines, West Shore Plaza, Tampa, FL	• Wyndham Newark International Airport Hotel, Elizabeth, NJ
• Schilling Farms Mixed-Use, Memphis	• Penn Square Mall, Oklahoma City	• Charlottesville Fashion Square, Charlottesville, VA

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**Post-doctoral Fellow, Doctoral Program, College of Architecture, Georgia Tech, 1998-1999**

Worked as a lead researcher of the "Design Decision Support System" project funded by the Georgia Tech Research Foundation. Aim of the project was to develop techniques of building layout analysis taking into account properties of shape and spatial configuration. Resulted in the creation of the building layout analysis software – "Spatialist". The software uses MicroStation as its platform, and includes a set of routines for the analysis of linear representations of spatial configuration, the automatic generation and analysis of convex partitions and the representation of visual fields. Licensed to about 20 universities in Europe, Latin America and the USA through the Georgia Tech Research Corporation.

*Courses Taught*

- Arch 8193: *Theories of architectural space and form - An investigation into the evolution of architectural theories and methods of description.* Spring 1999.
- Arch 8183D: *The social logic of space – A course on "space syntax".* Fall 1998. Taught with Dr. John Peponis.
- Arch 8183C: *Theories of architecture, space and culture.* Winter 1999. Taught with Dr. John Peponis.

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**Graduate Research Associate, Doctoral Program, College of Architecture, Georgia Tech, 1993-1997**

Participated in and contributed to ongoing research projects in building morphology, history and theory, and environment and behavior. Learned and applied methods and skills of research fields. Duties included part-time teaching. Participated in scholarly presentations, and co-authored research papers and publications. Helped to organize graduate seminar courses under the supervision of faculty members. Assisted in the instruction of courses. Assisted

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faculty members by conducting course related discussion and by grading assignments. Assisted with the development of assignments. Occasionally, led class meetings and presented seminars.

*Worked as a GRA for the following seminars*

- Arch 8193A3: *Formal descriptions of design*. Spring 1995. Spring 1996. Fall 1997. Taught by Drs. John Peponis and Jean Wineman.
- Arch 8173A: *Theories of inquiry in architecture*. Fall 1994. Fall 1995. Fall 1996. Fall 1997. Taught by Dr. John Peponis.
- Arch 8193F3: *Space, culture, and urban design*. Spring 1994. Spring 1995. Taught by Dr. John Peponis.
- Arch 8173A: *The spatial culture of buildings*. Winter 1994. Taught by Dr. John Peponis.

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### **Graduate Research Assistant, Aga Khan Program for Islamic Architecture, MIT, 1991-1993**

Participated in and contributed to ongoing research projects of the Aga Khan Program for Islamic Architecture at the Harvard University and Massachusetts Institute of Technology. Organized and participated in workshops, seminars, and outreach programs. Helped to organize graduate seminar and studio courses under the supervision of faculty members. Assisted in the instruction of courses and studios. Assisted faculty members by conducting course related discussion and by grading assignments. Assisted with the development of assignments.

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### **Lecturer, Faculty of Architecture, Urban and Regional Planning, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, 1989-1991**

Worked on curriculum review board and undergraduate admissions committee. Initiated the intern development program. Served on undergraduate design thesis committees. Organized seminars, symposiums, and workshops.

#### *Courses Taught*

- Arch 132: Art and Architecture I – History of Indian Architecture
- Arch 291: Design Studio II – Design and communication of simple buildings
- Arch 492: Theories of Urban Design
- Arch 513: Architectural Design Seminar

- Arch 332: Art and Architecture III – History of Modern Architecture
- Arch 421: Survey Techniques
- Arch 541: Professional Practice
- Arch 591: Design Studio V – Complex building design, planning and urban design

**Professional practice, Dhaka, Bangladesh, 1989-1991**

Spearheaded all aspects of a successful architectural practice. Built solid reputation for effective leadership by implementing innovative techniques, overseeing business goals, protocols and functions. Identified, established, and managed strategic relationships to leverage significant long-term business opportunities. Developed and implemented office manuals. Prepared contract documents, project manuals, specifications, and construction documents. Administered construction. Prepared architect's field report. Prepared ASI for minor modifications, change orders, and construction change directives. Conducted observations and inspections. Conducted substantial completions and project close-outs.

<i>Residential Projects</i>	<i>Redevelopment Projects</i>	<i>Other Projects</i>
<ul style="list-style-type: none"> <li>• Residence in Barisal</li> <li>• Huda Residence</li> <li>• Margi Residence</li> <li>• Residence in Mymensingh</li> <li>• Renovation of Gulshan Residence</li> <li>• Generic Developer-Built Housing</li> </ul>	<ul style="list-style-type: none"> <li>• Tati-Bazaar Redevelopment Project</li> <li>• Minto Road Residential Enclave Redevelopment Project</li> </ul>	<ul style="list-style-type: none"> <li>• BUET Employees' Club Building</li> <li>• Kanchpur Textile Factory</li> <li>• Dhaka Modern Art Museum</li> <li>• Azimpur Secondary School Building</li> <li>• 24-story High-rise Office Building for Bangladesh Railway</li> </ul>

**PUBLICATIONS (Listed in chronological order)**

- "Spatial layout and face-to-face interaction in offices – A study of the mechanisms of spatial effects on face-to-face interaction," *Environment and Planning B*. In Press. (With K Kampschroer, J Wineman, & C Zimring)
- "Sedentary and fleeting activities and their spatial correlates in offices." The Proceedings of the 37<sup>th</sup> Annual Conference of the Environmental Design Research Association (EDRA),

Atlanta, GA, 2006. (With D Craig, C Zimring, & M Thitisawat)

- "Facility Performance Evaluation" *Whole Building Design Guide*, National Institute of Building Sciences, Washington, D.C., 2005. Web address: <http://www.wbdg.org/design/fpe.php>. (With C Zimring, & K Kampschroer)
- "On Psychosocial Constructs and Office Settings: A Review of the Empirical Literature," *Proceedings of the Environmental Design Research Association (EDRA) 36 Conference*, Vancouver, Canada, 2005. (With C Zimring)
- "The Effects of Spatial behaviors and Layout Attributes on Individuals' Perception of Psychosocial Constructs in Offices," *Proceedings of the Fifth International Space Syntax Conference*, Delft, Netherlands, 2005. (With C Zimring, J Wineman, T Flaningam, L Nubani, & R Hammash)
- "Organizational Constructs and the Structure of Space: A Comparative Study of Office Layouts," *Proceedings of the Fourth International Space Syntax Conference*, University College London, 2003. (With C Zimring)
- "From Line to Square: Notes on the "Architecture" of Architecture," *Proceedings of the Second International Space Syntax Conference*, University of Brasilia, Brasilia, 1999.
- "Reconstituting Traditional Urban Values: The Role of the Boundary in Contemporary Cities," *Traditional Dwellings and Settlements Review*, Vol. 9, No. 2, 1998, pp. 37-49.
- "Describing Plan Configuration According to the Covisibility of Surfaces," *Environment and Planning B: Planning and Design*, Vol. 25, 1998, pp. 693-708. (With J Peponis, J Wineman, S Bafna, S H Kim)
- "On the Generation of Linear Representations of Spatial Configuration," *Environment and Planning B: Planning and Design*, Vol. 25, 1998, pp. 559-576. (With J Peponis, J Wineman, S Bafna, S H Kim)
- "Revisiting John Portman's Peachtree Center Complex in Atlanta," *Proceedings of the First International Space Syntax Conference*, vol. 1, University College London, 1997.
- "The Structure of Urban Space, Movement, and Copresence: The Case of Atlanta," *Geoforum*, Vol. 28, No. 3-4, 1997, pp. 341-358. (With J Peponis and C Ross)
- "On the Description of Shape and Spatial Configuration Inside Buildings: Convex Partitions and Their Local Properties," *Environment and Planning B: Planning and Design*, Vol. 24, 1997, pp. 761-781. (With J Peponis, J Wineman, S Bafna, S H Kim)

- "The Boundary as a Critical Tool in the Late Twentieth Century Cities of the United States," *Traditional Dwellings and Settlements*, Working paper series, Vol. 80, Nezar Alsayyad (ed.), University of California, Berkeley, 1996.
- "The Plan is the Program: Thomas Jefferson's Plan for the Rectilinear Survey of 1784," *Proceedings of the 84th ACSA Annual Meeting and Technology Conference*, Boston, 1996. Also included in the *Collection of Papers of the ACSA Northeast Regional Conference on Critical Urbanism*, Philadelphia, 1995.
- "Regularity and change in urban space: A syntactic analysis of movement and co-presence in Atlanta." *Ekistics*, v.63, n.376/377/378, 1996, 4-16. (With J Peponis, C Ross, S H Kim, G Varela, & L Sentosa)
- "Learning from Painumnagar," *Bangladesh: The Journal of the Department of Films and Publications*, Ministry of Information, Government of Bangladesh, 1992.
- "Sources of Contemporary Architecture of Bangladesh," in *Contemporary Architecture of Bangladesh*, Shah Alam Zahiruddin et al., eds., Bangladesh Institute of Architects, 1991.
- "Architectural Education in Bangladesh," *Technical Journal, Bangladesh University of Engineering and Technology*, Dhaka, 1990-1991.
- "The Hidden Dimensions: An Analysis of the Hindu Temple Complexes," *Protibesh: The Journal of the Department of Architecture*, Bangladesh University of Engineering and Technology, Dhaka, 1990.

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#### **REFEREED CONFERENCE PRESENTATIONS (Listed in chronological order)**

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- "A Decade of Patient and Family Centered Care in ICU Design: A Survey of the Best Practice Examples." Paper presented at the Environmental Design Research Association (EDRA) 37 Conference, Atlanta, GA, May 03-07, 2006.
  - "Sedentary and fleeting activities and their spatial correlates in offices." Paper presented at the Environmental Design Research Association (EDRA) 37 Conference, Atlanta, GA, May 03-07, 2006. (With D Craig, C Zimring, M Thitisawat)
  - "Modular versus Landscaped Office: A Comparison of Space, Behavior and Environmental Perception." Paper selected for presentation at the Environmental Design Research Association (EDRA) 37 Conference, Atlanta, GA, May 03-07, 2006. (With C Zimring & J Wineman)
  - "Improving Patient- And Family-Centered Care Through Rapid-Cycle Evidence Based Design:"
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The Emory University Hospital Neuro-ICU Case.” Paper presented at the 2006 Architecture Research Symposium, School of Architecture & Urban Design, University of Kansas, Lawrence, KS, 9 March 2006. (With C Zimring)

- “On Psychosocial Constructs and Office Settings: A Review of the Empirical Literature.” Paper presented at the Environmental Design Research Association (EDRA) 36 Conference, Vancouver, Canada, April 27-May 01, 2005. (With C Zimring)
- “A Comparative Analysis of the Effects of Spatial Layouts on Behaviors in Cellular and Landscape Type Open-Plan Offices: Movement, Visible Co-presence and Face-to-face Interaction Considered.” Paper presented at the Environmental Design Research Association (EDRA) 36 Conference, Vancouver, Canada, April 27-May 01, 2005. (With C Zimring)
- “Integrating Linear and Point-Based Behavioral Observation Techniques to Study Complex Behavioral Settings.” Paper presented at the Environmental Design Research Association (EDRA) 36 Conference, Vancouver, Canada, April 27-May 01, 2005. (With D Craig & C Zimring)
- “Individual work styles, intra-organization networks, and perceived work place satisfaction.” Paper presented at the XXV Sunbelt Social Network Conference, Redondo Beach, CA, February 16-20, 2005.
- “The effects of layout attributes and behaviors on individuals' perception of psychosocial constructs in offices.” Paper presented at the Environmental Design Research Association (EDRA) 34 Conference, Albuquerque, NM, May 2004. (With C Zimring)
- “Organizational Constructs and the Structure of Space: A Comparative Study of Office Layouts.” Paper presented at the Fourth International Space Syntax Symposium, UCL, London, June 2003. (With C Zimring)
- “From Line to Square: Notes on the “Architecture” of Architecture.” Paper presented at the Second International Space Syntax Symposium, University of Brasilia, Brasilia, Brazil, March-April 1999.
- “Pilot Study: Exploring the Application of Urban Design Measures in Predicting Travel Behavior.” Paper presented at the National Pedestrian Conference: Making America Walkable, Washington, D.C., September 1997. (With J Wineman, L Frank, & J Peponis)
- “Revisiting John Portman's Peachtree Center Complex in Atlanta.” Paper presented at the First International Space Syntax Symposium, UCL, London, April 1997.
- “The Boundary as a Critical Tool in the Late Twentieth Century Cities of the United States.”

Paper presented at the Conference on Traditional Dwellings and Settlements, UC Berkeley, CA, 1996.

- "The Plan is the Program: Thomas Jefferson's Plan for the Rectilinear Survey of 1784." Paper presented at the Best Papers Presentation Session of the 84th ACSA Conference, Boston, 1996.
- "Thomas Jefferson's Plan for the Rectilinear Survey of 1784." The ACSA Northeast Regional Conference on Critical Urbanism, Philadelphia, PA, 1995.

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### **INVITED CONFERENCE PRESENTATIONS**

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- "Design Research and Patient & Family Stress." Keynote speech at the Healthcare Environments Research Summit 2006: Developing the Research Roadmap, Georgia Tech, Atlanta, February 8-9, 2006. (With C Zimring)
- "Individual work styles, intra-organization networks, and perceived work place satisfaction." Invited presentation at the Workplace Intensive Session, Environmental Design Research Association (EDRA) 35 Conference, Vancouver, Canada, April 27-May 01, 2005. (With C Zimring & J Bromberg)
- "Indicators of High Performance Offices." Invited presentation at the Tenth Annual Network Intensive Session on "The Future of Knowledge Worker Officing Environments in the Public Sector" at the Environmental Design Research Association (EDRA) 34 Conference, Minneapolis, MN, May 2003. (With C Zimring)

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### **OTHER CONFERENCE AND WORKSHOP PARTICIPATIONS**

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- Participant. The 3<sup>rd</sup> Annual Design Educators Summit of the University & College Designers Association, University of Missouri-Kansas City, June 1-3, 2006.
- Participant. The Environmental Design Research Association (EDRA) 33 Conference, Philadelphia, PA, May 2002.
- Chair of a Session. The Third International Space Syntax Symposium, Georgia Tech, Atlanta, GA, May 2001.
- Chair of a Session. The Second International Space Syntax Symposium, University of Brasilia, Brasilia, Brazil, March-April 1999.
- Participant. Research Project on Islamic Urbanism: The case of Ronda, Spain. Included site visits and field studies. Organized by the Aga Khan Program for Islamic Architecture at MIT,

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Summer 1992.

- Participant. Design Responses in the Event-Bound Place: Historic Urban Edges in Boston and Lahore: An Aga Khan Program Outreach Program in Architecture and Urban Design. Included site visits and field studies. Organized by MIT, National College of Arts, Lahore, and Dawood College of Engineering and Technology, Pakistan, Spring 1992.
- Participant. Hands-on Building Construction. Organized by the Center for Basic Human settlements, Arizona, and the Aga Khan Program at MIT, January 1992.
- Participant. Tradition, Conflicts and Change: A Workshop on the City of Kashan, Iran. Organized by the Aga Khan Program at MIT, Fall 1991.
- Participant. International Design Competition on the Revitalization of Samarqand. Organized by the Aga Khan Foundation for Islamic Culture, 1991.

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### **SPECIAL ACTIVITIES (Listed in chronological order)**

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- Member, Board of Referees, *The International Space Syntax Symposium*.
- Reviewer, *Environment and Planning B: Planning and Design*.
- Reviewer, *Journal of Architectural and Planning Research*.
- Reviewer, *Environmental Design Research Association (EDRA)*.
- Reviewer, *Scientific validity review, National Research Council (IRC) of Canada*.
- Project Manager, Cadre, and Participant. Serviceability Tools and Methods (ST&M) Training and Demonstration Project. Instructor: Gerald Davis, IFMA Fellow, ASTM Fellow, AIA, CFM, President of ICF and TEAG - The Environmental Analysis Group, Ottawa, Canada, May 2003.
- Job Captain, Production Design team, Opening and Closing Ceremonies, 1996 Centennial Olympic Games, Atlanta.
- Member, Editorial Board, *Contemporary Architecture of Bangladesh*, Bangladesh Institute of Architects, 1991.

Helped to edit and manage the first-ever publication of the book "Contemporary Architecture in Bangladesh," by the Institute of Architects, Bangladesh. Oversaw publication schedules. Helped to determine suitability of content for the book. Helped to decide on content, editing functions, and production direction. Maintained manuscript database and submissions files. Participated in the recruitment of volunteers as necessary. Coordinated periodic face-to-face

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meetings and prepare relevant agendas.

- Member, Organizing Committee, First International Innovation Workshop on Shere-Bangla-Nagar, Dhaka. Organized by the Aga Khan Program at MIT and Harvard University, the Bangladesh Institute of Architects, and the Department of Architecture, Bangladesh University of Engineering and Technology, 1991.
- Member, Organizing Committee, Climate Conscious Design Workshop. Organized by Bangladesh University of Engineering and Technology, British Council, AA School, London, and Building Research Establishment, UK, 1991

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## **PROFESSIONAL SKILLS**

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### **Proficient in Morphological Analyses of Buildings using *Space Syntax***

*Space Syntax* provides a set of rigorous methods for analyzing buildings, observing patterns of space use within buildings, and for designing layouts that optimize space use patterns. Using these techniques may benefit all stages of design from briefing to furniture layout. Post-occupation analysis using *Space Syntax* can highlight deficiencies and inform plans for redesign. *Space Syntax* has been extensively applied in architecture, urban design, planning, transportation and interior design. It has also been used for research in archaeology, information technology, urban and human geography, and anthropology (for more information, visit: [www.spacesyntax.org](http://www.spacesyntax.org)).

### **Proficient in POE (Post Occupancy Evaluation)**

POE involves systematic evaluation of buildings in use. It uses the direct, unmediated experiences of building users as the basis for evaluating how a building works for its intended use; assesses how well buildings match users' needs; and identifies ways to improve building design, performance and fitness for purpose. It can help to make all other services architect offers look smarter. It can help clients to clarify issues and make informed decisions. It can be used for fine tuning new buildings, developing new facilities, managing 'problem' buildings, establishing maintenance policies, preparing for refurbishment, or selecting accommodation for purchase or rent.

### **Proficient in ST&M® (Serviceability Tools and Methods®) and BestFIT® Software**

ST&M® is an ASTM standard that includes a set of rapid and structured techniques for assessing what users require in buildings and what existing or proposed buildings provide. ST&M can enhance organizational effectiveness, increase credibility when proposing more functional and appropriate facilities; can help clients to understand the costs and benefits of

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more functional and humane facilities; and can help clients to learn how to state their requirements. ST&M uses the BestFIT® Software to define functional and operational requirements for space, assess one or several facilities and decide which facility will best suit needs, or review the proposal or new design for a facility (for more information, visit: [www.icf-cebe.com](http://www.icf-cebe.com)).

### **Proficient in Social Network Analysis (SNA)**

SNA is a research technique that looks at the relationships between people and organizations. SNA has developed rapidly over the last 20 years. Today, sociologists, communications scientists and management experts use this tool to describe relationships, examine information flows, and analyze patterns that develop between individuals and organizations. SNA has been used extensively in organizational management, sociology and anthropology.

### **Proficient in Traditional Architectural Presentation Techniques.**

- Drafting. Freehand drawing. Sketching. Water coloring. Coloring using Pastel. Paper modeling.

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### **ASSOCIATION MEMBERSHIPS**

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- Advisor, Bangladesh Students' Association at the University of Kansas, Since 2005.
- Member, Georgia Tech Alumni Association, Since 1998.
- Member, MIT Alumni Association, Since 1993.
- Member, The Ex-Cadet Association of Jhenidah Cadet College, Bangladesh, Since 1982.