

Lachmi Khemlani

32941 Norwalk St
Union City CA 94587
Tel: (510) 441-8103
lachmi@aecbytes.com

Summary

Lachmi Khemlani is the founder and editor of AECbytes, an online publication that has been researching, analyzing, and reviewing technology products and services for the building industry since its establishment in 2003. She also consults extensively on the development and implementation of AEC technology, gives frequent presentations before both professional and academic audiences, and serves on juries for technology awards.

Lachmi completed her Ph.D. in Architecture at UC Berkeley, specializing in intelligent building modeling. Her other credentials include a professional B.Arch. (Honors) degree from the Indian Institute of Technology, Kharagpur, India, and an M.Phil. in Architecture from the University of Cambridge, England. She has worked on numerous design projects as a practicing architect and taught CAD and 3D modeling for several years at UC Berkeley. In addition to writing in industry publications for several years, she has authored books on CAD and modeling. She continues to stay closely involved with the research community, recently serving on the editorial board of the journal, Automation in Construction.

Educational Qualifications

Ph.D. in Architecture

Aug 94 - Dec 97, Aug 99 - Dec 00, University of California at Berkeley.

M.Phil. in Architecture

Sep 92 - Aug 93, University of Cambridge, UK.

Honors Diploma in Systems Management (*part-time*)

Aug 91 - July 92, National Institute of Information Technology, Poona, India.

Bachelor of Architecture (Hons.)

July 85 - June 90, Indian Institute of Technology, Kharagpur, India.

Work Experience

Founder and Editor, AECbytes

Nov 03 – current

AECbytes is an online publication focused on researching, analyzing, and reviewing technology products and services for the building industry.

Founder, Arcwiz Consulting

Jan 01 – current

Arcwiz provides consulting and training services in the area of computer-aided building design.

Independent Writer

Jan 01 – current

Books, articles, product reviews, and tutorials in the area of software technology for the AEC (Architecture, Engineering, and Construction) industry.

Instructor

Jan 01 – August 02, Department of Architecture, University of California at Berkeley
Courses on 3D modeling and digital design.

Graduate Student Instructor

Aug 94 - Dec 97, Aug 99 - Dec 00, Department of Architecture, University of California at Berkeley
Courses on 3D modeling, digital design, computer applications, and programming.

Architect

Jan 94 - July 94, Suryakant Pawar and Associates, Architects & Planners, Poona, India.
Design development and CAD modeling of residential and commercial projects.

Assistant Architect

Jan 91 - March 92, Vishwas Kulkarni, Architect, Poona, India.
Design development, CAD and hand drafting, primarily of apartment building projects.

Junior Architect

Aug 90 - Dec 90, Auroservice D'Auroville, Architects & Planners, Pondicherry, India.
Design development and coordination of working drawings of the township plan for a new "steel city" in Vishakhapatnam, India.

Student Intern

June 89 - Nov 89, Nozer Wadia Associates, Architects & Interior Designers, Bombay, India.
Design development and preparation of working drawings of private beach cottages near Bombay, India.

Books

form•Z 4: Modeling, Rendering, Animation

McGraw-Hill, November 2003.

Into 3D with form•Z: Modeling, Rendering, Animation

McGraw-Hill, June 1999.

Research Papers

Book Review: Building Product Models by Charles Eastman

Automation in Construction, Vol. 11, No. 4, 2002, Elsevier Science, New York.

Intelligent Representation for Computer-Aided Building Design

Coauthors: Anna Timerman, Beatrice Benne, and Yehuda Kalay
Automation in Construction, Vol. 8, No. 1, 1998, Elsevier Science, New York.

Integrated Model to Support Distributed Collaborative Design of Buildings

Coauthors: Yehuda Kalay and Jin Won Choi
Automation in Construction, Vol. 7, No. 1, 1998, Elsevier Science, New York.

Semantically Rich Building Representation

Coauthors: Anna Timerman, Beatrice Benne, and Yehuda Kalay
ACADIA 97, Cincinnati, Ohio.

Integrated Computing Environment for Collaborative, Multi-Disciplinary Building Design

Coauthor: Yehuda Kalay

CAAD Futures 97, Munich, Germany.

GENWIN: A Generative Tool for Window Design in Energy-Conscious Architecture

Building and Environment, Vol. 30, No. 1, 1995. Pergamon Press, London.

Industry Publications

Use of Microsoft Technologies to Streamline Processes and Workflows in AEC

White paper for Microsoft, June 2008

Top Criteria for BIM Solutions

Survey and Research Report for Bentley, Oct 2007

Autodesk Revit: Implementation in Practice

White paper for Autodesk, March 2004

Feature Articles, Product Reviews, and Newsletters (weekly)

AECbytes, December 03 – current

Cover Stories, Product Reviews, and biweekly AEC Tech Newsletter

Cadence magazine, April 01 – Oct 03

Autodesk Revit tutorials (monthly)

Autodesk Toplines, February 03 – September 03

Potential and Challenges: Building Information Modeling under the Microscope

AEC Automation Newsletter, November 2003

Autodesk Revit: A Fresh Approach to BIM

AUGIworld, Nov-Dec 2003

Teaching Experience

Computer Applications in Architecture

3D modeling using form•Z, Fall 94 – Spring 02, UC Berkeley

Digital Design

3D modeling using form•Z, architectural rendering using Piranesi, and image compositing using Photoshop
Summer 97 – Summer 02, UC Berkeley

IntelliCAD 2001

Corporate training for Honeywell, Colorado Springs, March 2002

Using Computers in Design Practice: CAD Level II

Advanced AutoCAD 2000, Summer 01, UC Berkeley Extension

Introduction to Computers

Macintosh applications, HTML, and Javascript, Spring 95 – Fall 97, UC Berkeley

Introduction to Computer Technology

Macintosh applications, Summer 94 – Summer 95, UC Berkeley

A.P. Computer Science, Part I

Pascal programming, Summer 94 – Summer 95, UC Berkeley

Invited Talks and Presentations

BIM and Current Trends in AEC Technology

Annual Fall Lecture at UC Berkeley, 2003 – current

CMiC and Building Information Modeling (BIM)

Presentation at CMiC Connect Conference, Chicago, Sep 2008

Architecture Engineering & Construction (AEC) Industry Insight Webinar

Online webinar for Microsoft Professional Services Team, Dec 2007

Building Information Modeling: Revolutionizing Technology and Processes in AEC

Presentation at RSP Architects Project Management Forum, Minneapolis, Sep 2007

Update on BIM and Supporting AEC Technologies

Keynote Presentation at AEC Technology Strategies 2007 Conference, Las Vegas, June 2007

Overview of BIM: Latest Developments, Adoption Status, and Future Trends

Presentation at Ellerbe Becket Principals Retreat, Minneapolis, Oct 2006

Moving from CAD to BIM: Revolutionizing Technology in the Building Industry

Presentation at PBS&J BIM Meeting, Orlando, Sep 2006

From CAD to BIM

Presentation at GCSC Executive BIM Event, Vancouver, June 2006

Latest Technological Developments and Future Trends in AEC Technology

AIA TAP 2006 Conference, June 2006

Building Information Modeling: Opportunities and Challenges

Keynote Presentation at the BIM Symposium, University of Minnesota, February 2006

From CAD to BIM: Revolutionizing Technology in the Building Industry

Keynote Presentation at the Alabama Council AIA Annual Convention, August 2005

Moving from CAD to BIM

Presentation for the Cooper Carry Leadership Group, June 2005

Progress Report on Building Information Modeling

AIA TAP 2005 Conference, June 2005

Multi-disciplinary Building Information Models

Presentation at Bentley's "Build As One" Seminar, December 2004

From CAD to BIM: A State of the Art Report from the AEC Industry

Seminar at the Norwegian University of Science and Technology, November 2004

Building Information Modeling: The Next Step

Presentations to professional AEC audiences in Mumbai and Delhi, India, July 2004

Future Strategies for CAD Software Implementation

Moderator, Panel Discussion at eBIG CAD SIG Conference, November 2003

Digital Building Modeling

AIA TAP 2003 Conference, October 2003

Integrated Building Modeling

Seminar at Carnegie-Mellon University, May 2002

A Space-Structure Building Model

Seminar at Stanford University, February 2002

Semantically Rich Building Representation

Conference presentation at ACADIA, Cincinnati, October 1997

Integrated Computing Environment for Collaborative, Multi-Disciplinary Building Design

Conference presentation at CAAD Futures, Germany, August 1997

Computer Skills

Software Applications

- Microsoft Office applications including Word, Excel, Powerpoint, and Access
- Graphic Design applications including Adobe Photoshop and Illustrator
- Desktop Publishing applications including Adobe PageMaker
- Web Design applications including Macromedia Dreamweaver and Flash MX
- CAD applications including AutoCAD, MicroStation, and VectorWorks
- 3D Modeling applications including form•Z and SketchUp
- BIM applications such as Autodesk Revit, ArchiCAD, and Bentley Architecture

Programming

- C/C++
- Java
- Javascript

Awards and Distinctions

Tuition Waivers

Awarded by the Department of Architecture, University of California at Berkeley, for continued enrolment in the Ph.D. program. Aug 94 - Dec 97, Aug 99 - Dec 00.

Certificate of Excellence

Awarded by the Department of Architecture, University of California at Berkeley, for research work produced as a Ph.D. student in the department. May 95.

Cambridge ODA Shared Scholarship

A full scholarship awarded by the Overseas Development Administration, UK, and the Cambridge Commonwealth Trust, to study for the M.Phil. in Architecture degree at the University of Cambridge. Oct 92 - Aug 93.

Gold Medals and Certificates of Excellence

Awarded by the National Institute of Information Technology, Poona, India, for being the top-ranking student all through the program. Sep 92.

Institute Silver Medal and General Proficiency Prize

Awarded by the Indian Institute of Technology, Kharagpur, India for being adjudged the best among the graduating students in Architecture. Aug 90.

Sarat Memorial Prize

Awarded by the Indian Institute of Technology, Kharagpur, India for being adjudged the best woman student among those graduating from all B.Tech.(Hons.) and B.Arch.(Hons.) courses. Aug 90.

Membership of MENSA India

Awarded for scoring a percentile rank of 99+ on an intelligence test. MENSA India is the national chapter of MENSA International, an organization founded in 1946 for members getting a high score on an intelligence test. 1990-91.

National Talent Search Scholarship and Certificate Of Merit

Awarded by the National Talent Search Unit, National Council of Educational Research and Training, India, on the basis of performance in the nationwide Talent Search Examination held in May 1983. July 83 - April 90.
