

Carlos A. Cárdenas

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EDUCATION

- Doctor of Design Studies** 06/2003 - 06/2007
Harvard Graduate School of Design
Doctoral research focusing on the impact of parametric modeling techniques and digital fabrication in architectural design practice.
- Master in Design Studies (Distinction) - Concentration : Digital Media** 09/2002 - 06/2003
Harvard Graduate School of Design
One year mid-career professional program that focuses on digital media and its relationships with design disciplines.
- Specialization: Multimedia Creation**
Faculty of Arts & Humanities, University of Los Andes. (Bogota, Colombia) 01/2001 - 01/2002
One year introductory program to the creative use of information technology. Theoretical background as well as technical introduction to digital media.
- Post-graduate Diploma: Pedagogy of Technique in Architecture Schools** 01/1998 - 08/1998
ETSAB, Universidad Politecnica de Catalunya (Barcelona, Spain)
Post-graduate program focused on the pedagogy of technique in schools of architecture.
A full time one semester program with international faculty, focusing on education and transmission of building technology knowledge, innovation and research.
- Professional Degree in Architecture** 08/1990 - 03/1996
Faculty of Architecture & Design, University of Los Andes (Bogota, Colombia)
Five year professional program in architecture & design.

ACADEMIC & PROFESSIONAL EXPERIENCE

- Founding Partner - CAPO-DESIGN inc. , NY-Boston.**
Web Based / Interaction Design & Consulting Firm 12/2006 - 04/2007
Information Architectures, Strategy and Visual / Interactive Design and Development of multiple web-based projects for diverse clients. These include among others Harvard University and Harvard Graduate School of Design, Hyposurface (M. Goulthorpe), H24 Aviation Advisors.
- Design Research & Consulting - The MEME inc. , Boston.** 12/2006 - 04/2007
Regional Trend Research for Innovations in Mobile Interaction Design
User centered design research for Samsung UDS group based on regional emotional trend (US) and cultural factors. Brand positioning and trend analysis for the strategic design and development of innovative Mobile Entertainment Devices (MP3, Portable Media Players, Digital Cameras, etc).
- Teaching Fellow, 6319 CAD/CAM: Design Development in Digital Environments** 2004 - 2006
Harvard Graduate School of Design
Workshop - Lecture course with prof. Daniel Schodek, focusing on architecture and product design development using advanced digital tools. Lectures on building examples and case studies, and full development of curriculum for skill building in parametric and solid modeling techniques using CATIA.
- Adjunct Faculty, PAE 630 Interaction Design**
MSc. in Product Architecture Engineering, Stevens Institute of Technology (NJ) 08/2005 - 12/2005
Weekly seminar / workshop taught at the Product Architecture Lab, primarily focused on interaction design methodologies, principles, and theories. Strategic development of projects and applications that allowed students to personally and intimately explore the interaction between people (users / designers), data and technology (networks, digital interfaces) at different scales (environments, artifacts & systems).

Teaching Assistant, Harvard Graduate School of Design

6317 CAD/CAM 1 Introduction to Applications in Architecture

Course teaches the fundamentals of computer-aided design and manufacturing (cad/cam), with an emphasis on applications in architecture, focusing on how component design is affected by digital design and production techniques.

06-09/2002 - 06-09/2004

**Design Associate, Center for Design Informatics [CDI]
Harvard Graduate School of Design**

Participation in multiple research and design development of projects as conceptual, graphic and media interaction designer. Work at CDI included the development of a collaborative learning application ("Team Learning Module"), multiple web sites for events and courses at the GSD.

01/2000 - 08/2002

Full Time Faculty - Assistant Professor

Faculty of Architecture & Design, University of Los Andes (Bogota, Colombia)

Teaching at Thesis studio (Final Career Project). Curricular design of several courses for the technical area of the department, as part of a research in innovation of pedagogy methodologies for building technology. Responsible for an introductory course in building technology, and a seminar in Information Technology & Architecture. Member of the Academic Council of the Department & other committees. Coordinator of the Publishing Workshop, in charge of diverse publications and editorial projects. General design coordinator, Information Architect & Designer for web-based projects.

08/1998 - 01/2000

Part Time Faculty - Instructor

Faculty of Architecture & Design, University of Los Andes (Bogota, Colombia)

Teaching at the fourth semester (second year) design studio, which makes an emphasis on tectonic & technical aspects of design. Responsible for introductory lecture course in building technology. Teaching at the first year design studio, with an emphasis on the introduction to the analysis and conceptualization of projects, and their relationships to context (urban & natural environment, history, etc.)

08/1998 - 01/2000

Architecture & Urban Design

Daniel Bonilla Architects (Bogota, Colombia)

Planning & Design of diverse projects ranging from small scale urban furnishing, to large scale urban & landscape design interventions. Responsible for design, construction documents and technical coordination of housing projects. During this period the office participated in two competitions: "Park at Tomine Dam" (3rd place) - large scale regional strategy and master plan for a sustainable environment in the area; "Academic Research Center - Helvetia School" (2nd place) - academic resource center for a swiss school in Bogota. Other projects include design and coordination of a library and resource center for "Los Nogales" school, and a 7 km long park for "Tunjuelo" river.

01/1998 - 08/1998

Architecture & Urban Design

Clotet, Paricio & Assoc. (Barcelona, Spain)

Design and modeling for the renovation of the traditional "Boqueria Market" and the design development of housing projects in Solsona and Olot, in Catalunya.

01/1997 - 01/1998

Full Time Graduate Assistant,

Faculty of Architecture & Design, University of Los Andes (Bogota, Colombia)

As part of a faculty development program started that year, I enrolled as a full time Graduate Assistant. Activities included documentation, support and introduction to the teaching of diverse subjects, based on the first year design studio environment.

05/2007

PUBLICATIONS

"Modeling Strategies: Parametric Design and Fabrication in Practice" (In progress)

Cambridge, MA : Dept. of Architecture, Harvard Design School (2007) - 72 p. : ill. ; 26 cm.

Case studies focused on documentation and analysis of the effects of parametric modeling for fabrication in the design process, applied to architectural practice. Will be published in the Spring of 2007 as part of the Design Technology Series at the Harvard Graduate School of Design.

07/2003

03/2001

Selected academic projects & course work featured in:

Corser, R., and Bakallbashi, G., "Computer Aided Design and Manufacturing: Applications in Architecture" (Cambridge - Harvard Design School: Technology Report Series 2003-4).

2000-2002

"Pedagogy of Technique in Architecture Schools"

Article published with Rafael Villazon G. in "Arquitecturas No. 7", Bogota, Colombia. March 2001, pg. 58-61.

Director Publishing Workshop, Department of Architecture at University of Los Andes

Publishing projects & Activities included:

Design and development of a branding and publications strategy for the Department. Coordination of editorial design committees, supervision of production teams and implementation of publication strategies. Information and web design, brochures & pliables, posters, students & faculty magazine, documentation courses & academic programs, and different series and collections of books (research based publications).

2004 - 2006

2003

2003

01/2000 - 08/2002

1999

1998

1996

1994 - 1995

1994

AWARDS AND DISTINCTIONS

- Teaching Fellowship, Harvard Graduate School of Design.
- Doctor of Design program Full Tuition Grant, Harvard Graduate School of Design.
- Graduated with Distinction from the Master of Design Studies, Harvard Graduate School of Design.
- Member Academic Council, Department of Architecture at University of Los Andes.
- Design competition (2nd place) - "Academic Research Center Helvetia School" with Daniel Bonilla Architects
- Design competition (3rd place) - "Park at Tomine Dam" with Daniel Bonilla Architects.
- Selected student speaker at campus wide graduation ceremony 1996, University of Los Andes.
- Member of the Academic Council as student representative (1994-1995).
- President of the first Student Council, Faculty of Architecture & Design, University of Los Andes.

2004 - To Date

AFFILIATIONS

Critical Digital - Founding Member

Harvard Graduate School of Design Student Organization

The purpose of Critical Digital is to foster dialogue about digital media, digital technology and design, and to challenge the basis of contemporary digital media arguments. The intention of the group is to identify, distinguish and offer a critique of current trends, tendencies and movements in digital cultures through diverse activities that offer a continued venue for critical thought and a permanent forum for discussion in all fields of study within the Harvard - GSD community.

[<http://projects.gsd.harvard.edu/critical/>]

SKILLS

Technical

CATIA, SolidWorks, AutoCAD, 3D-Max, Maya. Web-based technologies (HTML, Flash/Actionscript), Image and Desktop Publishing (Photoshop, Illustrator, InDesign), Office.

Languages

Fluent Spanish, English, French.