

Curriculum Vitae
of
Iwao Takahashi, PhD

Houston Community College
Architectural Design & Construction Center of Excellence
Iwao.takahashi@hccs.edu

Education

Ph.D. in Architecture, December 2013

Texas A&M University, College Station, Texas

Master of Engineering in Architecture, March 1996

Nihon University, Graduate School of Science and Technology, Tokyo, Japan

Bachelor of Engineering (Architecture), March 1981

Hosei University, Tokyo Japan

Teaching, Research Areas, and Interests

Architectural Design and Drafting with Building Information Modeling

Architectural Theory and Philosophy, Sign Theory of Architecture

Sustainable Design Philosophy, Practice, and Building Systems

Online Education in Architecture

Teaching Experience

Texas State University, School of Family & Consumer Sciences, Interior Design, January 2020 – May 2023

Course Taught:

ID 3327 – Building Construction In Interior Architecture (Online)

Sam Houston State University, Department of Family & Consumer Sciences, Interior Design, Huntsville Texas, January 2020 – May 2020

Course Taught:

FACS 2365 – Digital Drawing for Interiors (Online)

Prairie View A&M University, School of Architecture, Prairie View Texas, September 2019 – December 2019

Courses Taught:

ARCH 1253 – Architecture Design I

ARCH 2223 – Computer Aided Design (AutoCAD, Revit)

University of Houston, Department of Construction Management, Houston Texas, August 2015 – December 2017

Course Taught:

CNST 2321 Mechanical and Electrical Systems (Co-teaching, IBC, IECC, IPD, Thermal Load Simulation and Sustainability)

Houston Community College – Southeast and Southwest, Houston Texas, August 2008 – Present

Courses Taught:

DFTG 1317 - Architectural Drafting - Residential (AutoCAD Architecture)

DFTG 1376 - Revit Residential (Hybrid Course)

DFTG 1392 - Special Topics Architectural Drafting & CAD (Revit Architecture, 3ds Max Design, Green Building)

DFTG 2328 - Architectural Drafting – Commercial (Revit Architecture)

DFTG 2331 - Advanced Technology Architectural Drafting and Design (Revit Commercial, Hybrid Course)

Public Access to HCC Student Presentation, Sample Lecture Videos, and Syllabi:

<https://learning.hccs.edu/faculty/iwao.takahashi>

<https://edutube.hccs.edu/category/Creative+Showcase%3EDrafting+%26+Architectural+Engineering/107039542>

Lone Star College – North Harris, Face to Face, Online, and Hybrid, Houston Texas, January 2008 – Present

Courses Taught:

ARCE 1315 - Structural Steel Detailing (Revit for Structure)

ARCE 1352 - Structural Drafting (Revit for Structure)

CNBT 1311 - Construction Methods & Materials

DFTG 1309 - Basic Computer-Aided Drafting (AutoCAD)

DFTG 1317 - Architectural Drafting - Residential (AutoCAD Architecture, Revit Architecture)

DFTG 1391 - Special Topics in Drafting and Design (Revit and BIM focused)

DFTG 2328 - Architectural Drafting - Commercial (AutoCAD Architecture, Revit Architecture, Revit Structure, and Revit MEP)

DFTG 2331 - Advanced Technology Architecture (AutoCAD Architecture, Revit Architecture, 3ds Max Design)

DFTG 2340 - Solid Modeling and Design (AutoCAD)

Other Teaching Experience

Taught various architectural design and drafting courses including residential and commercial building design, the use of software through basic and advanced (AutoCAD, AutoCAD Architecture, Revit Architecture, 3ds Max, and other visualization software), and design history in modern and contemporary.

Westwood College, Houston Texas, January 2005 – March 2012

Lecturer and instructor of Architectural Planning, Design and Related Laws in Japan for Japan National Designated Architect Qualified License Examination

Comprehensive License Society (Sogo Shikaku Kyokai), 1996 Tokyo Japan

National Land Development Training Center (Kokudo Kaihatu Kenshu Center) 1995-1996, Tokyo Japan.

Mentor Faculty Role

Served as a mentor faculty for Honors Program Students

Bethany L. Jordan, (Sustainable Home Design, LEED Certification), Lone Star College, May 2008

Laura Cuesta, (Sustainable Design for Residential Facility), Lone Star College, May 2009

Publication and Research

“INTERPRETATION PEIRCIENNE D’UNE ARCHITECTURE GEOMETRIQUE NUMERIQUE
Sémiotique et abstraction,” *L’ARCHITECTURE DU SENS Sémiotique de l’Espace Encyclopédie Volume 3
Projet, Forme, Figure*, 271-297, Diffusion AISE+T: www.ias-st.com, translated by the members of
AISE+T, October 2020, (The original title in English: Peircean Interpretation of Digital Geometric
Architecture: Semiotic and Abstraction)

“Peircean Interpretation of Digital Geometric Architecture,” *CROSS-INTER-MULTI-TRANS
Proceedings of the 13th World Congress of the International Association for Semiotic Studies (IASS/AIS)*,
Kaunas 2017, 26-30 June, International Semiotics Institute, Kaunas University of Technology, Lithuania,
226-234, IASS Publication & International Semiotic Institute, January 2019

“Architectural Identity of Digital Age: Displacement between Concept and Practicality,” *2018 Design
Communication Association Conference Proceedings Virtual + Actual + Process and Product of Design*,
414-423, Department of Design & Environmental Analysis Cornell University, Ithaca, New York,
October 2018

Peircean Interpretation of Postmodern Architecture (Ph.D. Dissertation, Texas A&M University,
December 2013; Committee Chair, Professor Robert Warden)

*The Location Choice Decision of Office Building in Advanced Information Society: An Example of
Headquarters at Three-Major-Wards in Downtown Tokyo*
(Master Thesis, Nihon University, Tokyo Japan, 1996; Mentor Faculty, President and Professor (Retired),
Katuei Kojima, Ph.D.)

Conference Presentation

“Proceeding Semiotic Elements of Japanese Teahouse”, The regular meeting of the International
Association for Semiotics of space (IASSp/AISE) INTERNATIONAL ASSOCIATION FOR THE
SEMIOTICS OF SPACE AND TIME (IASSp+T), Online, June 5, 2021

“Architectural Identity of Digital Age: Displacement between Concept and Practicality,” *Design
Communication Association 2018*, Cornell University, New York, October 2018

“Peircean Interpretation of Digital Geometric Architecture,” *13th World Congress of Semiotic* – Cross-
Inter-Multi-Trans-“, Kaunas Lithuania, June 2017

“Sustainable Design Tools Integration for Architectural Design and Drafting,” *Lone Star College
Teaching & Learning Conference*, Woodlands Texas, March 2014

Invited Presentation

A Possible Web Enhanced Course by Introducing Recorded Lecture Video – Revit Architecture,
Houston Community College Department of Drafting Design Engineering Technology Advisory
Committee Semi-annual Meeting – Fall 2015, November 2015

Public Video Presentation

“Revit and BIM 8 sessions” Webinar series for the education community in Houston area, University of
Houston, Houston Community College, Lone Star College, Houston Texas. October and November 2017:
<https://www.youtube.com/watch?v=Wx9ypJj0l7k&list=PLMji5kbKztah2iCNcPsJBu7rTCWSnOwcb>

Jury Participation for Design Studios

Gerald D. Hines College of Architecture and Design, University of Houston, Houston Texas. April 22, and 26, 2019

Practice and Professional Experiences

Architectural Service

Building design and building permit, and surveillance of construction

Project Manager at WCA Architect, Houston, Texas, USA, March 2006 – May 2006

Principal Architect at TAU Design, Tokyo, Japan, May 1989 - March 1999

Senior Project Architect at Niida Architects, Tokyo, Japan, May 1981- April 1989

Selected Projects:

TAU Design

Sacos Company Ltd. Headquarters Building, Design Partner of Sonoda A/E Tokyo, Japan 1991

Provided schematic and basic design, and design development

Tokyo International Convention Center (Officially named as Tokyo Big Sight), Design Partner of Sonoda A/E Tokyo, Japan 1990

Provided schematic design, consultation to Tokyo International Trade Fair Commission

Diplomatt Office Interior Design, *Diplomatt* Corporation Tokyo, Japan 1990

Provided all design phases services and construction surveillance

Niida Architects

Hoshi Building, Tokyo, Japan 1989

Provided schematic & basic design, design development, and construction surveillance

Ishii House (Single Residential), Japan 1988

Provided schematic & basic design, design development, and construction surveillance

Iguchi House (Single Residential), Japan 1986

Provided schematic & basic design, design development, and construction surveillance

Consulting

Designer & Consultant of Multi-Unit Life-Cycle Cost Evaluation Database System of building components, life-cycle cost evaluation prediction system with multivariable analysis method

Selected Clients:

Union City Service Tokyo, Japan 1996 – 1999

Facility Management Company with a varied portfolio of more than 400 high-rise buildings

Toyo Building Management Tokyo, Japan 1998

Facility Management Company with high-rise residential buildings in resort and urban areas

Overseas Consultation

Property Investment Management Consultant for Asian Projects, and data analysis for investment proposals

Eisho Enterprise Tokyo, Japan 1994 - 1995

Volunteer Activities

“Higawa House, Single Residential Project Proposal” for a community of Sunnyside, Houston
(Pastor Nash, St Pauls Missionary Baptist Church), March 2017

License and Certificate

Architect in Japan (Nationally Designated Architect, First Class), 1985

Revit Architecture 2011 Certified Professional (Autodesk)

Autodesk Building Performance Analysis Certificate, May 2014

Online Teaching Certification, December 2014 (Lone Star College)

Recipient of all certifications for teaching online, August 2017 (Houston Community College)

Online Teaching Certification, October 2020 (Texas State University)

Affiliation

International Association for Semiotics of Space and Time, Switzerland, Member, July 2019 – Present

Updated February 1, 2024