

Curriculum Vitae
of
Iwao Takahashi, Ph.D.

School of Architecture, Prairie View A&M University
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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

Affiliation

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

University of Houston, Department of Construction Management, Houston Texas, Lecturer,
August 2015 – Present

Houston Community College, Houston Texas, Instructor, August 2008 – Present

Lone Star College – North Harris, Houston Texas, Instructor, January 2008 – Present

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

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

Courses currently teaching:

ARCH 1253 – Architecture Design I
ARCH 2223 – Computer Aided Design

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 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

“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.)

Current Research in Progress

Sustainable Design Education in Architecture for Community College: Student’s Online Workshop and Perception on Sustainable Design (Lone Star College IRB Approved)

Online Teaching Mode Selection Between Explicit and Tacit (Lone Star College IRB Approved)

Conference Presentation

“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)