TEXAS STATE VITA

I. Academic/Professional Background

A. Name: VATSALYA SHARMA Title: MR.

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Bachelor of Architecture	2015	School of Planning and Architecture, New Delhi	Architecture	Adapting Architectural Elements Of Classic Indian Architecture In Modern Teaching Spaces
Diploma in 3D Animation and Visual Effects	2018	Vancouver Film School, Vancouver	Visual Effects	
Master of Science in Technology Management	2020	Texas State University, San Marcos	Construction Science and Management	Creating an educational training manual for producing interactive 3D construction models for a VR environment

C. University Experience:

Position	*University*	*Activity*	*Dates*
Lecturer	Department of Engineering & Technology, Texas State University	Teaching CSM 4313 Architecture Design II Construction Documents Teaching CSM 2313 Architecture Design I Construction Documents Teaching CSM 2360 Residential Construction I: Home Production Teaching CSM 2262 Construction Lab: VDC	July 2020 – Present
Graduate Teaching Assistant/Adjunct Faculty	Department of Engineering & Technology, Texas State University	Taught CSM 4368 Environmentally Conscious Design Taught CSM 4369 Contracts, Liability and Ethics Assisted CSM 2313 Architecture Design I Construction Documents Assisted CSM 4313 Architecture Design II Construction Documents	Aug 2019 – May 2020
Teaching Assistant	Department of Engineering & Technology,	Assisted CSM 2313 - Architecture Design I - Construction Documents	Oct 2018 – Aug 2019

	Texas State University	Assisted CSM 4313 - Architecture Design II - Construction Documents	
Lecturer	Department of Architecture at MITS (Madhav Institute of Technology & Science), Gwalior, India.	Faculty member for Architectural Design IV, Architectural Design II and Theory of Design I Architecture Design Thesis coordinator Organized two study tours for students	Jul 2015 – Jun 2016

D. Relevant Professional Experience:

Position	*Entity*	*Activity*	*Dates*
Senior Associate Architect	Studio Toolbox, New Delhi, India	Developed design drawings for Ashoka City (Patna, India) a 1530 apartment housing complex with six different typologies of apartment Site Area – 19 acres Site Built Up – 2389500 SqFt Developed design and drawings for Green City (Patna, India) - a 600 apartment housing complexes with six different typologies of apartment Site Area – 4.7 acres Site Built Up – 664160 SqFt	Jun 2016-Mar 2017
Assistant Architect	Scientist Studios, Gwalior, India	Developed drawings and 3D model of Morena Mall, Morena, India Developed drawings and 3D model of Sahakari (Cooperative) Bank, Morena, India Developed presentations and report for Chief Minister Road Development Project of Gwalior, India	Apr 2014-Jul 2014
Intern (Architecture)	Atwal Associates, New Delhi, India	Developed drawings, specifications and 3D model of Buro Happold, Mumbai India Executed modifications in drawings of Krrish Tower, Colombo, Sri Lanka	Feb 2014-Apr 2014
Intern (Architecture)	IF Studios, New Delhi, India	Developed 3D model for Spiretech Competition, a high rise in Noida, India	May 2011-Jun 2011
Research Assistant	Ms. Ivica Petrikova, Lecturer, University of Portsmouth	Surveyed, collected and complied data on food security in Eastern U.P. , India	Dec 2012 – Feb 2014
Research Assistant	Prof. Ashok Grover, Dean, MBS School of Architecture	Literature review, data collection and compilation, development of drawings and 3D models on 'Evolution of development of City Centers around Airports '	Aug 2011 - Apr 2012

E. Other Professional Credentials (licensure, certification, etc.):

Licensed Architect (Council of Architecture, India) – CA/2016/77308

II. TEACHING

A. Courses Taught:

Course	*University/College*
CSM 4313: Architecture Design II - Construction Documents	Texas State University, San Marcos
CSM 2313: Architecture Design I - Construction Documents	Texas State University, San Marcos
CSM 2262 Construction Lab: VDC	Texas State University, San Marcos
CSM 2360: Residential Construction I- Home Production	Texas State University, San Marcos
CSM 4368: Environmentally Conscious Design	Texas State University, San Marcos
CSM 4369: Contracts, Liability and Ethics	Texas State University, San Marcos
Arch. Design IV: Architectural Design Thesis	Madhav Institute of Technology and Science, Gwalior, India
Arch. Design II: Residential Design	Madhav Institute of Technology and Science, Gwalior, India
Theory of Design I: Basic Design Theory	Madhav Institute of Technology and Science, Gwalior, India

B. Courses Prepared and Curriculum Development:

Courses	*Development*
CSM 2262 Construction Lab: VDC	Developed hands on coursework based on Virtual Design and Construction (VDC) technologies
	Developed exercises related to 3D Printing, 3D BIM, 4D BIM. 5D BIM, Reality Capture, VR and MR
	Organized guest lectures to expose students to applied construction technologies
	Organized Field Trips to expose students to onsite construction activities

CSM 4313: Architecture Design II - Construction Documents	Developed course according to applied technologies in construction field Added one exercise based on Residential Construction Added two exercises based on Autodesk Navisworks Made the whole coursework rigorous
CSM 2313: Architecture Design I - Construction Documents	Made the coursework hands-on and engaging, with emphasis on 2D to 3D visualization and vice-versa Introduced 3D modeling software like Trimble SketchUp Introduced new projects of varying complexities
Arch. Design IV: Architectural Design Thesis	Changed the scale of the projects which students can choose Increased the scale of the building model Developed a detailed timeline for assignment submissions
Arch. Design II: Residential Design	Added two exercises based on residential design compared to one before The first exercise focused on a basic house design with function of the building as priority The second exercise focused on a large scale residential building which required focus on form of the building as well as design detailing

C. Teaching Professional Development Activities Attended:

Organization	*Activity*	*Date*
American Council for Construction Education (ACCE)	12 Hours Construction Management Teaching Workshop	Feb 2020
ACCE	12 Hours Construction Management Teaching Workshop	Feb 2022
California Polytechnic University, San Luis Obispo	VDC Teacher Training Workshop (VDC: Virtual Design and Construction)	June 2022

III. SCHOLARLY/CREATIVE

A. Conference Proceedings:

Kisi, K. P., Snosi, O., & Sharma, V. (2024). Creating a Construction Safety VR Game with Decision-Making Scenarios for an Interactive Learning Experience. In Computing in Civil Engineering 2023. https://doi.org/10.1061/9780784485248.054

IV. SERVICE

A. Institutional

1. University:

Faculty Advisor of Texas State Wakeboard Student Organization

2. Department/School:

Assisted in High School Trips of the CSM Department

Participated in Bobcat Day

Participated in Career Fair

Developed banners for Construction Advisory Board (CAB) and Construction Science and Management (CSM)

Assisted in logo development of CAB

Developing presentation drawings of Infrastructure Research Lab (IRL) at Starpark

B. Professional:

Completed online certifications related construction technology and education:

Construction Estimating Takeoff

BIM Foundations

Construction Estimating Bid Recap

Construction Estimating Extension

Construction Estimating: RSMeans and Cost Data

Construction Estimating: Specifications and CSI MasterFormat

C. Community:

Volunteer service to Central Texas Vipassana Association (CTVA) since January 2020.
Provide assistance in development of drawings, 3D model and construction supervision to CTVA

D. Organization Memberships:

CTVA Trust member since 2021