

# NEHA MEHROTRA

Department of Community and Regional Planning,  
326 College of Design, Iowa State University,  
Ames, IA 50011

Phone: (515) 294-9154  
E-mail: [neham@iasate.edu](mailto:neham@iasate.edu)

## EDUCATION

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***Master of Community Planning***, Major in Urban Design and Land Planning  
*Auburn University, 2001*

***Bachelor of Architecture***, Major in Contextual design and Architectural Symbolism  
*TVB School of Habitat Studies, India, 1999*

## PROFESSIONAL EXPERIENCE

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Currently I am involved in teaching two GIS courses offered by the Department of Community and Regional Planning. CRP 551: Introduction to GIS is a pre-requisite to advanced courses that form part of the Graduate GIS Certificate Program; and CRP 351: Intermediate GIS is an integral part of the recently created undergraduate GIS Minor. These courses attract graduate and undergraduate students from a variety of disciplines including Engineering, Anthropology, Biology, Landscape Architecture, etc. Students are guided through extensive theoretical and practical applications of the Geographic Information System, while using ArcGIS Pro (the most current GIS software at ISU). They work on a semester long project related to their field of study that teaches them real-world application of the program.

I have experience in Urban Design, GIS, Physical and Community Planning methodologies. My previous work has addressed GIS database management, growth management issues, historic preservation and international architectural design.

I have used geographic data standards and GIS technology in the collection, exchange and analysis of information in support of humanitarian relief by UN agencies developing world nations. I worked as part of a team to develop geo-spatially-referenced digital data models for supporting an environmental Sustainability Study Program.

As part of my planning efforts, I have conducted research and worked on Historic Planning, Growth Management and Downtown Revitalization projects. My design portfolio includes developing landscape alternatives for Ghana, Africa and construction and design aspects of building complexes in India and Bhutan. I have also been extensively involved in teaching and research assignments during my graduate study.

## PROFESSIONAL HISTORY

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***Associate Teaching Professor***, Department of Community and Regional Planning, Iowa State University, Ames, Iowa  
*August 2018 to Present*

Currently responsible for teaching courses in Introductory and Intermediate *Geographical Information Systems* (ArcGIS Pro) to graduate and undergraduate students from multiple disciplines across the ISU campus

***Lecturer***, Department of Community and Regional Planning, Iowa State University, Ames, Iowa

*August 2004 to July 2018*

Currently responsible for teaching courses in Introductory and Intermediate *Geographical Information Systems* (ArcGIS 10.4.1); Previously taught Community Visualization using *Scenario 360 (Community Viz.)*; Published tutorials and instructed GIS Short Courses to members of the public and private local Iowa communities.

**Urban Planner**, Powell, Fragala & Associates, Inc., Lakeland, Florida  
*February 2002 to May 2003*

Master community planning and design for a 1,500 acre R/V, time-share resort, including conference center, numerous residential products, and a 36-hole golf course; Comprehensive Plan Amendment experience; Writing *Sociocultural Effects Manual* part of the Efficient Transportation Decision Making (ETDM) Process for the Florida DOT; Illustrations and editing for Public Involvement manuals; Numerous site design projects and Planning Expert Witness case research.

**GIS Intern**, Information Technology Outreach Services, University of Georgia, Athens, Georgia  
*October 2001 to January 2002*

Responsible for using geographic data standards and GIS technology in the collection, exchange and analysis of information in support of humanitarian relief by UN agencies in developing world nations.

**GIS and Planning Research Assistant**, School of Planning, Architecture & Design; College of Agriculture, Auburn University, Auburn, Alabama  
*August 2000 to May 2001*

Responsible for developing geo-spatially-referenced digital data layers for supporting the *Sustainable Eufaula Program* in south Alabama. Conducted research on housing for World War-II workers and the *American Neighborhood Atlas*.

**GIS Assistant and Intern**, City Planning Department, Auburn, Alabama  
*June 2000 to August 2000*

Developed City of Auburn's land use database within the existing Geographical Information System, analyzed and upgraded Transportation Analysis Zone for the city's Transport Plan-2020.

**Graduate Research Assistant**, Auburn University, Auburn, Alabama  
*September 1999 to June 2000*

Conducted research work on growth management and historic preservation projects.

**Intern and Teaching Assistant**, University of Georgia, Athens, Georgia  
*January 1998 to June 1998*

Developed landscape alternatives for Ghana, Africa, teaching assistant for dean of school for undergraduate course on '*Cultural Landscapes*', created measured drawing project for *Vines and Botanical Park* in Georgia, and assisted with restoration and reuse of Victorian homes in Athens, GA.

**Professional Project Trainee**, Jasbir Sawhney Associates, New Delhi, India  
*August 1996 to December 1996*

Assisted with construction and design aspects of the *Indira Gandhi National Center for the Arts* and a multinational software company-building complex.

**Professional Intern**, Architecture Cell Royal Government of Bhutan, Bhutan

*June 1996 to July 1996*

Prepared design brief for Supreme Court complex at Thimphu (National Capital), assisted with Summer Palace renovation works, prepared and documented measured drawings for the High court complex, and documented local and traditional architectural styles.

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**SOFTWARE KNOWLEDGE**

**Graphics:** *Adobe® CS*

**CAD:** *AutoCAD*

**Geographic Information Systems (GIS):** *ESRI ArcGIS Pro and earlier versions*

**Web Related Skills:** HTML and Web page design

**General Software:** *Microsoft and Macintosh data processing*

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**PROFESSIONAL INTERESTS**

GIS Database Design and Analysis; Urban Planning and Design Methodologies; Planning Methods, Planning Management and Implementation; Design Communication and Graphics; Financing and Budgeting; Historic Preservation Planning

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**PROFESSIONAL AFFILIATIONS**

Member, American Planning Association