

CRAIG FORNERIS
Architecture, Analytic, and Visualization Technologist
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773.559.9698
www.threepointsquare.com

"Wherever technology reaches its fulfillment, it transcends into architecture" - Mies Van Der Rohe

With another wave of technology derived by the need to further convey design intent, one wherein the designer has the ability to make their own digital tools, in a user based, web based stage, AI driven future, one cannot overlook the necessity of a skilled technologist as I to facilitate enhanced orchestration. The ability to virtually convey design intent and allow computation to drive design options, analytics, and responsiveness to the designer has taken reign in the competitive business of architecture. I am not just a person whom knows a lot of software, I have a concept of the future of architecture and its interplay with technology, therefore I can build that future world in some way. I've been continually developing it through leadership as a BIM manager for SmithGroup, Digital Design Manager for Solomon Cordwell and Buenz, and ownership of my own AEC digital consulting firm Three Point Square

Branding a new ecosystem within any company starts with the quality of people that are hired and the skills they possess. This is exemplified by the years spent teaching as an Adjunct Instructor at Illinois Institute of Technology, Columbia College Chicago, and Harrington School of Design Chicago. Enabling me the ability to craft future ecosystems as seeds waiting for bloom in the professional world.

My time working as a consultant with my own firm Three Point Square made me realize how far behind firms really are in terms of technology no matter how large or small and how often they continually mull over the same technological issues, muscling through just to reach deadlines with nothing ever really developing or resolving. Now more than ever this regurgitation can no longer occur. The deliverable of a paper document in its antique form will quickly be bypassed by the virtual record model. The living, breathing echo of the physical reality of what the building is.

The computer is the architect's tool and all architects need to begin a form of mastery over it, not just a few people in an office that know architecture and dabble in code. In order to achieve higher forms of digital architecture and delivery of the built environment, a firm needs a leader, someone whom others look to as mentor for architecture design that possess a high level thought about the future of our architecture business in scope of technology. With the advent of Artificial Neural Networks, a quickly progressing hobby of my own for the digital building, these virtual record models would serve as the training data sets for future digital models. This would require the virtual record model to in some ways be connected back to the real building forming a new billable for the architect, need for expertise within the architect's office, and way to maintain the intellectual property of the architects design through technology similar to the royalty collected by a musician.

We can already see the change towards a connected digital model and an analog building. First by building code moving into machine readable formats in larger municipalities, next by virtual models moving into a cloud storage system, then we will see the birth of a regression feedback loop of those models for hosted in the cloud. The question is will the architect drive and take ownership of the data that drives those feedback loops or will it be based on some other software company's regression based entirely on their clients use of its software for virtual models. We as architects and businesses need to have the capability, and further, the responsibility to begin building these systems internally for sake of intellectual ownership within architecture in the changing world of technology.

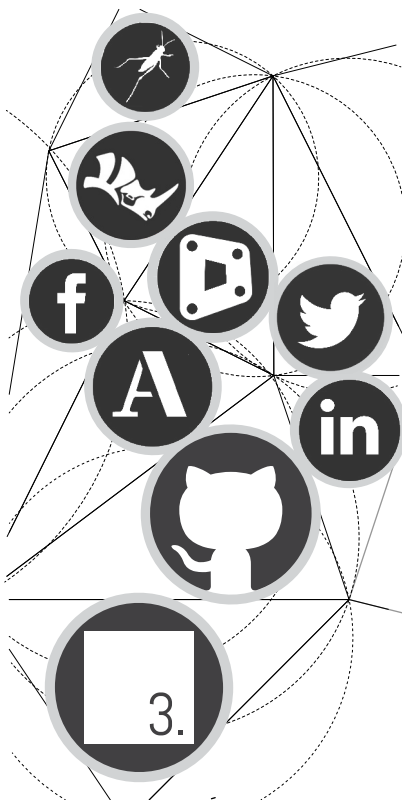
I would be an asset for any architecture firm especially in today's changing technological world, but am reaching out directly to your firm as I feel the firm is highly progressive and wants to build a new technologically driven world for architecture and design. Please consider my application enclosed as open ended for any position you feel I am suited for And I am more then willing to relocate. My portfolio is migrating to a webbased platform, however in the interim, sample work can be visited through the various links in red within the following pages. Should there be a good fit within the company, feel free to reach out at [773.559.9698](tel:773.559.9698) or by email at craig@threepointsquare.com.

Thank you for your time and consideration.

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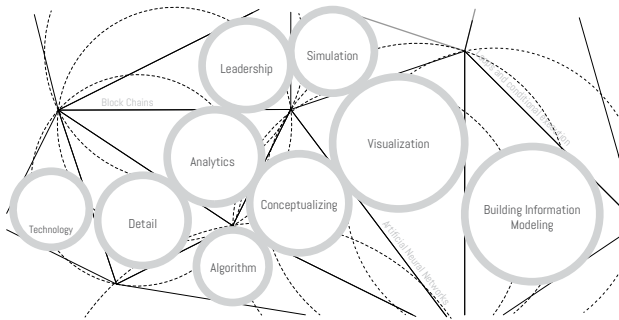
three point square

INTRODUCTION

"Wherever technology reaches its fulfillment, it transcends into architecture" - Mies Van Der Rohe

With another wave of technology derived by the need to further convey design intent, one wherein the designer has the ability to make their own digital tools, in a user based, web based stage, one cannot overlook the necessity of a skilled technologist as I to facilitate enhanced orchestration. The ability to virtually convey design intent and allow computation to drive design options, analytic, and responsiveness to the designer has taken reign in the competitive business of architecture. Crafting my technical abilities through leadership as a BIM manager for SmithGroup, Digital Design Manager for Solomon Cordwell and Buenz, and ownership of my own AEC digital consulting firm Three Point Square, successes lie in the paths I create not just in technology and custom digital work flows but people themselves, those wanting to push the envelope and develop new tools for their own design processes. This is exemplified by the years spent teaching as an Adjunct Instructor at Illinois Institute of Technology, Columbia College Chicago, and Harrington School of Design Chicago.

SPECIALIZATION



PROFESSION

- 1** BIM Manager 2017 -2018
SmithGroupJJR - Washington DC
- 2** Digital Design Manager - 2011 - 2013
Solomon Cordwell Buenz
- 5** Adjunct Instructor - 2010 - 2015
Illinois Institute of Technology Chicago IL
- 1** Adjunct Instructor - 2015
Columbia College Chicago - IL
- 1** Project Architect - 2016
Antonovich & Associates - Chicago IL
- 3** Owner/Partner - 2013 - 2016
Three Point Square Inc. - Chicago IL
- 1** Adjunct Instructor - 2014
Harrington College of Design - Chicago IL
- 2** Intern - 2006 - 2008
VRA Architects - Park Ridge IL

TECHNICIAN

Building Information	Visualization
Revit <input type="checkbox"/>	3ds Max <input type="checkbox"/>
Forge - BIM360 <input type="checkbox"/>	vRay <input type="checkbox"/>
AutoCAD <input type="checkbox"/>	Maya <input type="checkbox"/>
Infraworks <input type="checkbox"/>	Blendr <input type="checkbox"/>
Civil 3d <input type="checkbox"/>	Unity <input type="checkbox"/>
Navisworks/Solibri <input type="checkbox"/>	Enscape <input type="checkbox"/>
Dynamo <input type="checkbox"/>	Vive <input type="checkbox"/>
Re-Cap <input type="checkbox"/>	After Effects <input type="checkbox"/>
Rhinoceros <input type="checkbox"/>	Photoshop <input type="checkbox"/>
Computation	InDesign <input type="checkbox"/>
Python <input type="checkbox"/>	Illustrator <input type="checkbox"/>
Microsoft - R <input type="checkbox"/>	Simulation
C# <input type="checkbox"/>	FLUENT <input type="checkbox"/>
CUDA <input type="checkbox"/>	Autodesk CFD <input type="checkbox"/>
Visual Basic <input type="checkbox"/>	SAP 2000 <input type="checkbox"/>
Powershell <input type="checkbox"/>	AGI32 <input type="checkbox"/>
HTML5/PHP/CSS <input type="checkbox"/>	Network Information
JavaScript <input type="checkbox"/>	Active Directory <input type="checkbox"/>
Grasshopper <input type="checkbox"/>	VPN <input type="checkbox"/>
MaxScript <input type="checkbox"/>	Group Policy <input type="checkbox"/>
AutoLisp <input type="checkbox"/>	SCCM <input type="checkbox"/>
RhinoScript <input type="checkbox"/>	Server 2012 <input type="checkbox"/>
Processing <input type="checkbox"/>	SQL <input type="checkbox"/>
Carnivore <input type="checkbox"/>	N-Map <input type="checkbox"/>

Beginner Intermediate Master

EDUCATION

- Illinois Institute of Technology - College of Architecture / Armour College of Engineering
Master of Science in Architecture
2009 - 2010
- Illinois Institute of Technology - College of Architecture
Bachelor of Architecture - Minor Digital Design
2004 - 2009
- Joliet Junior College
Associate Of Arts - Specialization Business Management
2001 - 2006

RECOGNITION

- Furthering the Built Environment**
Stein, Ray, and Harris Scholarship
Illinois Institute of Technology
- Teaching Assistantship**
Awarded 2006-2007 - Ben Riley
Illinois Institute of Technology
- Deans Fellowship**
Awarded 2009 - Donna Robertson
Illinois Institute of Technology
- Scholarship - Full Tuition**
Awarded 2010 - Dept. of Energy
Wanger Institute Sustainable Energy Research
- Deans List**
Awarded 2005 - 2009
Illinois Institute of Technology
- Teaching Assistantship**
Awarded 2008 - 2010 - Peter Land
Illinois Institute of Technology
- Research Assistantship**
Awarded 2010 - Hamid Arastoopour
Illinois Institute of Technology
- Teaching Assistant**
Awarded 2010 - IIT Perfect Power
Wanger Institute Sustainable Energy Research

ORATION

- Building Integrated Wind Power: Conceptual Applications For Self-Powered Built Environments***
Illinois Institute of Technology - S.R. Crown Hall Lower Core
2010 - Chicago, Illinois
- Fueling Innovation - Campaign For IIT**
Illinois Institute of Technology -
2010 - Chicago, Illinois
- Digital Design In Practice**
Chicago Council On Science and Technology
2013 - Chicago IL
- From Node to Code - Scientific Computing with the Revit API and Python**
CADD Microsystems - Revit DC
2017 - Washington DC

INSTRUCTION

- ARCH 497 - Comprehensive Design Studio**
Illinois Institute of Technology
2014 - 2015
- ARCH 434 - Building Information Modeling**
Illinois Institute of Technology
2010- 2015
- ARCH 125 - Intro Architectural Computing**
Illinois Institute of Technology
2010- 2015
- ARCH 225 - Architectural Computing**
Illinois Institute of Technology
2010- 2015
- ARCH 225 Digital Media 2**
Illinois Institute of Technology
2015
- Digital Media 1 - Digital Design for Interiors**
Columbia College Chicago
2014 - 2015
- E505 - Building Information Modeling**
Harrington College of Design
2014
- Digital Media 3 - Digital Design for Interiors**
Columbia College Chicago
2014 - 2015

INVESTIGATION

- "Optimization of Building Forms Shaped to Accelerate Wind Flow onto Turbines Using Mesh Morphing"**
WISER in collaboration with the US Department of Energy
2015-2016

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BIM MANAGER SmithGroupJJR

1

Description

SmithgroupJJR project teams are adept at working between Revit and many other technology platforms to develop rich Building Information Models which embody a project's design goals from concept through construction. Daily Duties included:

- ❑ Mentoring in the use of BIM authoring as well as other visualization technologies
- ❑ Creation of BIM execution plans
- ❑ Project support activities;
- ❑ Orientation for New Employees
- ❑ Training practitioners the all software related to BIM
- ❑ Management of Core Digital Delivery (10) team in the DC office
- ❑ Contract review for BIM terms and conditions and complex project facilitation
- ❑ Content and Workflow Development,
- ❑ Biweekly Interface with Autodesk
- ❑ Speaking Engagement at Revit DC
- ❑ Speaking Engagements at Dynamo DC

Along with other members of the Technology in Practice Group, I aided in setting the direction and adoption of design work flows, BIM content and standards as well as evaluate and develop use cases for new technology across our entire firm. This includes the research, testing and deployment of related software and hardware to foster innovation at every phase of the project. Projects brought to fruition under my direction:

- ❑ Life Safety Deliverable to An Automated Toolset based on Occupancy using Python
- ❑ Room Data Sheets using Node JS, Python and SQL
- ❑ Development of Zero Touch Dynamo Nodes for SOGGIER
- ❑ Development of Model Analytics, Dynamo, Python and SQL,
- ❑ Development of Point Clouds in VR Node JS, WebVR and Vive
- ❑ Automated Veteran Affairs BIM Design templates. Surgical Services, Polytrauma, Community Living Centers,

Project Typology

- Government
 - 1900 K Street
 - VA Healthcare Design templates
 - VA Willamette National Cemetery
 - Social Security Administration
- Workplace
 - Fannie Mae Headquarters
- Interiors
 - CBRE
 - Carnegie Library Apple Store
- Healthcare
 - Kaiser - Medstar
 - National Intrepid Center of Excellence
- Institution
 - UTK Engineering Facilities
 - Indiana University Volleyball Arena
 - UNCG Biology Lab
 - Old Dominion - Chemistry Labs
 - Boston University -Dentistry School
 - University of Delaware - Biomedical
- Urban Planning
 - Changbai Mountain Resort
- Cultural
 - Museum of the Bible
 - African American Museum As Buils

DIGITAL DESIGN MANAGER Solomon Cordwell Buenz

2

Description

SCB is an architecture, interior design, and planning firm that practices nationally from offices in Chicago and San Francisco. Since 1931, SCB has made a lasting impact on the nation's skyline, campuses, and neighborhoods, helping our clients across the country achieve their goals, serve their constituencies, and make their mark. As Digital Design Manager I fostered the digital design production and related graphical quality for the firm at an enterprise level.

- ❑ Provided solutions specific to graphic presentations and design model production.
- ❑ Trained all users on BIM and graphic related software.
- ❑ Provided technical support for all digital design needs.
- ❑ managed and supported all output for graphics.
- ❑ Managed firm wide Digital Design initiatives under direction of Design Technology Oversight Group
- ❑ Participated in firm leadership meetings and input on manpower, scheduling, and project bids
- ❑ Provided staffing recommendations and reviews
- ❑ Provided staffing recommendations for projects and teams
- ❑ Responsible for instituting and managing all internal training programs
- ❑ Managed the development of internal standards, templates, digital libraries and documentation
- ❑ Responsible for maintenance of internal centralized render farm for central and satellite offices
- ❑ Custom development of tools in 3ds Max, vRay, Revit, and Adobe
- ❑ internal technical software consultant to office holistically
- ❑ Billable on Projects approximately 25 percent of time
- ❑ Hardware builds on Servers And Workstations

Several tools were created within my grasp of technology at that time including still integrated mission critical IT and Related digital workflow tools -

- ❑ Customization of Deadline - Python scripts for Animation Connectivity to After Effects
- ❑ Customization of Revit - 3ds Max workflow - Max script and C#
- ❑ Customization of AutoCAD- 3ds Max workflow -AutoLisp and C#
- ❑ Initiated Rhinoceros Grasshopper Workflow for Office
- ❑ Active Directory Login Scripts For Installations and Sync of User Builds - VB.net
- ❑ Custom DLL for Software Usage Tracking - C#

Project Typology

- High Rise - Residential
 - Summit on Lake - Animation
 - Summit on Lake - CDs
 - State And Chestnut
- High Rise - Mixed Use
 - Loews Building
- Interiors
 - Summit on Lake Interior Rendering
 - Coffee Shop Concept Design
- Corporate Training
 - Revit To Max Workflow Video
 - Training Modules
- Institution
 - Notre Dame Visitor Hotel
 - Ball State Student Center
 - Loyola - business School
 - Loyola - CSUL
 - Loyola - CTRE
- Urban Planning
 - Droll University - Student Center
 - Loyola Station - CTA Redevelopment

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PRESIDENT Three Point Square Inc.

3

Description

Project Typology

Three Point Square Inc. was founded in early 2014 revamping previous work done by Craig Forneris as Partner in Three Point Square LLC. The business model shifted towards a consultant based Digital Design firm, which boasted clients from all facets of the Architecture, Construction and Engineering Community including University Curriculum consultations. The three points of Three Point Square are, Training and Consultation, Full Service Design Consultancy, and Project Based Contract work for hire via BIM, Visualization and API development. Services included but were not limited to .

- Mentoring in the use of BIM authoring as well as other visualization technologies
- Creation of BIM execution plans
- Project support activities; Visualization. Work flows, CD's, BIM consultation.
- Training practitioners the all software related to BIM
- Contract review for BIM terms and conditions and complex project facilitation
- Content and Workflow Development,
- Provided solutions specific to graphic presentations and design model production.
- Provided staffing recommendations and reviews of current business trends on a case by case scenario
- Responsible for maintenance of internal centralized render farm for client access
- Custom development of tools in 3ds Max, vRay, Revit, and Adobe
- Billable on Projects approximately 25 percent of time
- Hardware builds on Servers and Workstations/ recommendations for IT infrastructure

Upon closing the business in 2016, It now serves as a test bed for new ideas and development activities of Craig Forneris, included but not limited to Artificial Neural Networks for Architecture. Web Based User interfaces for architecture Design, And moreover cod development and mentoring to the open source community.

- Government
 - Grant Proposal Sample
 - Smart Grid Animations IIT
 - Cleveland Department of Transportation
- Residential
 - Hebru Brantley Residence Design
 - Design Proposal Sudler Property
- Interiors
 - Walgreens Renovation Documents
 - Crate and Barrel Code Compliance Check
 - Golub Corporate Office Preliminary Designs
 - Pear Marketing Design Renderings
 - Geek Bar Designs
- Cultural
 - Shuangzou Steam Punk Time Machine
 - YMCA Renderings
- Healthcare
 - Northwestern Memorial hospital - BIM Consult for Chicago Art Source/Latent Design
- Institution
 - Chicago Public Schools CD's - Architrave
- Commercial Realty
 - Bid Renderings for Baum Realty
- Manufacturing
 - Sun-Star Manufacturing
- Technology
 - Latent Design - Mac Forest
 - Chicago Specialty Gardens - Windows Forest
 - Technology Consultation Report Sample
 - BIM Mentoring and Training
 - Curriculum Consultation - Columbia College
 - Computational Design Course- Timeless Creations
 - NEC Graphical Interface Re-Design

PROJECT ARCHITECT Anutovich and Associates

1

Description

Project Typology

The Firm possesses a broad range of professional expertise that encompasses both private and public sector work. This experience includes the master planning of university campuses and large mixed-use commercial developments; programming and design of corporate campuses; higher education facilities; museums; historic preservation and adaptive re-use projects; residential and mixed-use complexes; speculative office buildings and retail stores; brand design; hospitality; and senior living.

While At AA, I was project architect for applying development project in collaboration with Skidmore Owings and Merrill, Hines, Carr, Cosentini Engineering, and several others subs, for the Lincoln Park Childrens Memorial Hospital redevelopment, That project included, 10 buildings two of which were residential towers, and a slew of restoration projects, and new construction in the commercial sector for storefronts,

- Mixed-Use
 - Lincoln Commons
- Institution
 - University of Kentucky Bookstore
- Interiors
 - Gibsons - Oak brook Expansion

INTERN VRA Architects - (Out of Business)

2

Description

Project Typology

VRA Architects formally from Park ridge Illinois Boasted clients across the majority of the financial sector include ding, wells Fargo, Banco Popular , bank of America, Chase Bank, Xerox federal Credit Union and the list continues, They pioneered some of the methodologies incorporated into suburban financial institution design.

I was responsible for all facets of the design process while interning at VRA. This included a handful of CD's space planning, schematic and design development packages.

- Financial
 - First Community Bank
 - Newmark Credit Union
 - Banco Popular

ADJUNCT PROFESSOR Illinois Institute of Technology

5

Comprehensive Building Design Studio - High Density Low Rise Urbanism

Download

Studio will explore the historical context of the housing development and apply orientation and massing principles to the 21st century urban context. The semester will begin with exercises at the scale of the body, the housing unit, and case studies of housing projects world-wide all focusing on potentials of housing developments in the 21st century urban context. Throughout the semester students will produce qualitative as well as quantitative housing solutions addressing community and density, and energy production.

Advanced Building Information Modeling Strategies

Download

Students will explore various software tools and concepts used for Building Information Modeling. This includes and is not limited to the use of Revit, Grasshopper, and other Analytical tools. This course will not entirely be based on exploitation of a digital tool to produce standardized construction documents; it will also teach a methodology of implementing digital tools to produce specific interrelated results.

Integrated Building Delivery Practice/BIM

Download

The introduction of BIM (Building Information Modeling) is an advance in project delivery tools which should be viewed as a multi-dimensional expansion of the mechanisms of management and accommodation of an ever-broadening range of participants in the organization of a project, allowing the development of a new delivery protocol, IBPD (Integrated Building Project Delivery). BIM is currently recognized as consolidating the basis for a range of functions including drawing, modeling, document management, clash detection, interdisciplinary coordination, estimating, scheduling, constructability review, production modularization, fabrication protocols, and for the analysis of myriad physical and prescriptive demands such as energy consumption, daylighting, code compliance, egress, circulation, and operation scenarios.

Architectural Computing

Download

Review of drafting, modeling and rendering computer hardware and software used in the practice of architecture design. Design and management issues are explored with the extensive use of PC CAD systems, including AutoCAD, Revit, Rhino, and 3ds Max. Contemporary practice applications are discussed.

Introduction to Architectural Computing

Download

The class introduces concept development, design thinking and problem solving related to architectural representation and production technique (digital and analog). The class will look critically at recent digital design developments, as well as introduce students to the history of each "type" of computer program; and the class will introduce students to the basic skills required to productively work with a variety of

Inter professional Project - Smart Hard Hat

Download

New digital communications devices are proliferating and advancing technologically at a rapid pace. BIM (building information modeling) is being incorporated into the construction process. The image of a construction superintendent trying to read an unwieldy set of prints in the blowing wind at the wide-open construction site can soon be replaced with a hands-free smart hard hat managed by a digital cell phone and augmented with several state-of-the-art devices.

ADJUNCT PROFESSOR Columbia College Chicago

1

Digital Media For Interior Design 1

Download

Students will be provided the opportunity to understand the advanced use of software applications in the interior architecture workflow. By the end of the course, the student should have an advanced level of understanding of software used in contemporary practice. Students will be provided further opportunities to explore the relationship to digital output.

Digital Media For Interior Design 3

Download

Third Course in Series - Students will be provided the opportunity to understand the advanced use of software applications in the interior architecture workflow. By the end of the course, the student should have an advanced level of understanding of software used in contemporary practice. Students will be provided further opportunities to explore the relationship to digital output.

ADJUNCT PROFESSOR Harrington College of Design

1

Building Information Modeling for Interior Design

Download

This Graduate level course utilizes the powerful and data rich software of Building Information Modeling (BIM) programs to streamline the design process from Preliminary Design through Design Development, and into Construction Documents with a central 3d Model. Students were presented each course with a topical lecture related to the BIM model and construction document followed by lab and one on one consultation.

CO-PRINCIPAL INVESTIGATOR Illinois Institute of Technology

1

Office Of Sponsored Research IIT - Department of Energy Funding Source

Available Upon Request

"Optimization of Building Forms Shaped to Accelerate Wind Flow onto Turbines Using Mesh Morphing" - Building forms were wrapped into a parametric modeling engine and then treated with a mesh morphing scenario after a set amount of calculation time for the CFD Calculation. The end result was a middle ware calculation program that managed a regression loop between the modeling and meshing software and the

RESEARCH ASSISTANT Illinois Institute of Technology - WISER

1

Specialized Research and Thesis Development I

[Download](#)

Specialized Consultation for Research and Thesis Development of Student work. Collaboration with the Department of Electrical engineering on the Implementation Graphics and Diagrams related to the Smart Grid Implementation at the Illinois Institute of Technology. Assistant to Grant Proposal Writing for the Department of Energy. and the Wanger Institute for Sustainable Energy research

Specialized Research and Thesis Development 2

[Download](#)

Specialized Consultation for Research and Thesis Development of Student work. Collaboration With the Department of Electrical engineering on the Implementation Graphics and Diagrams related to the Smart Grid Implementation at the Illinois Institute of Technology. Assistant to Grant Proposal Writing of the Department of Energy and the Wanger Institute for Sustainable Energy research

TEACHING ASSISTANT Illinois Institute of Technology - Peter Land

3

Community Based Design Project - 01

[Download](#)

In this studio, students will be introduced to the discipline and techniques of urban design through the understanding of temporality, density, infrastructure, and public space through the scale of a singular building within the context of a larger built environment. Focus will be given to the direct interaction with public agencies, community groups, developers, and community development corporations. The public orientation of the studios will provide an understanding of urban design as a fundamentally future-oriented practice with an expanded potential for engagement in the sociopolitical. Students will be able to select from varied studio topics.

Community Based Design Project - 02

[Download](#)

In this studio, students will be introduced to the discipline and techniques of urban design through the understanding of temporality, density, infrastructure, and public space through the scale of a singular building within the context of a larger built environment. Focus will be given to the direct interaction with public agencies, community groups, developers, and community development corporations. The public orientation of the studios will provide an understanding of urban design as a fundamentally future-oriented practice with an expanded potential for engagement in the sociopolitical. Students will be able to select from varied studio topics.

Ecological Structures

[Download](#)

Research seminar giving focus to new technologies, especially complex structures: biotechnical, pneumatic, ultra-tall, composite structures, etc. Students conduct research using literature, data sources, and ideas to prepare imaginative small project interdisciplinary approach to solving problems in the built environment.

Architecture Studio - High Rise Structures and Building Systems

[Download](#)

Re-examination of the conventional tall building in the form in the light of new ideas. The emphasis will be on inventiveness. Design clues may include advanced structures, utilization of renewable resources for electrical energy generation, and planting for beneficial climate modification. An important objective of the studio is to advance current knowledge in the area of the project concept.

Architecture Studio - Long Span Structures and Building Systems

[Download](#)

Re-examination of the conventional tall building in the form in the light of new ideas. The emphasis will be on inventiveness. Design clues may include advanced structures, utilization of renewable resources for electrical energy generation, and planting for beneficial climate modification. An important objective of the studio is to advance current knowledge in the area of the project concept.

TEACHING ASSISTANT Illinois Institute of Technology - Benjamin Riley

1

Architecture IV Structures, Building Systems, and Assemblies

[Download](#)

The development of architectural principles through the study and analysis of building materials (Wood Timber Framing) Development of the graphic language in architecture. Consideration of the appropriate use of materials, energy, and clear construction as the basis of architecture.

Architecture III Structures, Building Systems, and Assemblies

[Download](#)

The development of architectural principles through the study and analysis of building materials (Load Bearing Brick and Steel). Development of the graphic language in architecture. Consideration of the appropriate use of materials, energy, and clear construction as the basis of architecture.

UNOFFICIAL TRANSCRIPTS

4.0

Master of Science in Architecture -

Illinois Institute of Technology - College of Architecture / Armour College of Engineering

- ARCH 486 Structures II: Design of Advanced Steel Structures
- ARCH 561 Entrepreneurship & Innovation in Architecture
- ARCH 588 Thesis Preparation
- ARCH 590 Specialized Research & Thesis Development
- ARCH 430 Networked Technologies
- ARCH 497 BIM in Practice: Revit
- ARCH 508 Digital Applications in Design
- ARCH 591 Research and Thesis M.S.
- MMAE 517 - Computational Fluid Dynamics

DOWNLOADS

- ["Principles and Design Guidelines For Building Integrated Wind Power: recommendations Leading Towards a Self Powered Built Environment"](#)
- [Portfolio - Forneris 2009 - 2010](#)
- [Feasibility Study - Wind Farms - 2010](#)
- [Smart Grid Animations Demo Page](#)

3.6

Bachelor of Architecture -

Illinois Institute of Technology - College of Architecture

- ARCH 420 Architecture X
- ARCH 497 Advanced Topics in Digital Design
- IPRO 497 Inter professional Project - Recording Studio
- SOC 450 Human Nature
- ARCH 419 Architecture IX
- CRP 465 Ecological Basis of Planning
- IPRO 497 Inter professional Project - Residential Bridge Design
- PHIL 302 Origins of Modern Philosophy
- ARCH 428 3d Animation
- CAE 334 Illumination And Acoustics
- ARCH 413 Architectural Practice
- ARCH 418 Architecture VIII
- ARCH 321 History of Modern Thought in Architecture
- ARCH 417 Architecture VII
- ARCH 429 Architectural Computer Programming
- ARCH 487 Ecological Structures
- ARCH 306 Architecture VI
- ARCH 404 Building Systems II
- CAE 352 Structures III : Concrete
- PHIL 342 Philosophy of Mind
- ARCH 305 Architecture V
- ARCH 403 Mechanical and Electrical Building Systems I
- ARCH 423 Architectural Space Programming
- CAE 351 Structures II: Steel
- ARCH 202 Architecture IV
- ARCH 427 3d Modeling and Rendering - 3ds Max
- CAE 287 Structures I : Analysis and Behavior
- CRP 201 The Dwelling - Residential, Planning, and Construction
- AAH 301 Thinking About Art
- ARCH 201 Architecture III
- ARCH 226 Computer Aided Design In Practice
- CAE 286 Concepts of Structural Mechanics
- AAH 120 History of Architecture II
- ARCH 110 Freehand Drawing II
- ARCH 114 Architecture II
- ARCH 125 Introduction to Architectural Computing
- AAH 119 History of Architecture I
- ARCH 100 Introduction to Architecture I
- ARCH 109 FreeHand Drawing I
- ARCH 113 Architecture I
- MATH 119 Analytical Geometry

DOWNLOADS

- [Portfolio - Forneris 2004 - 2009](#)
- [Hand Drafting - Sketch Assignments - Summer Writers Studio](#)

HONORS

- Cum Laude
- Minor - Digital Design
- Specialization - Philosophy

3.3

Joliet Junior College

Associate Of Arts - Specialization Business Management

- ECON 390 Micro and Macro Economics
- HUM 102 Philosophy
- HUM 190 Ethics
- MATH 122 Calculus I
- PHYS 211 Physics 1
- PHYS 212 Physics 2
- SOC 200 Intro to Sociology
- TRF 100

HONORS

- Specialization - Business Management