Ryan Johnson

AIA, LEED AP

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Employment

Clark Nexsen / Computational Designer , Associate
2020 - PRESENT

Clark Nexsen / Architect , Associate
2013 - 2020

Clark Nexsen / Intern Architect
2008 - 2013

See selected work below

Education

North Carolina State University / Master of Architecture
2004-2007

Appalachian State University / BA Industrial Drafting and Design
2000 - 2004

About

- 'Full service' Computational Designer providing complete designs utilizing 17 years of Architectural experience.
- First Computational Designer at Clark Nexsen.
- Leads the Computational Design and AI Hub for Clark Nexsen.
- Enjoys working on projects through their entire lifecycle, from Pre-design through CA.
- 2021 ENR National Top 20 under 40.
- 26 Speaking engagements locally and nationally.
- 2 National AIA Task Forces Appointments.
- 2 National Jury Appointments.
- 2 National AIA Chair appointments - Including the AIA Technology in Architectural Practice Knowledge Community, a 5 year commitment.
- Developed 35+ Dynamo scripts deployed to the company that have modified over 135,000 elements. Usage of the scripts has doubled year over year for the last 3 years.
- Founded and led Clark Nexsen's Tech Studio for 5 years- Led the hiring of the Director of Practice Technology to take over that role and allow my transition to Computational designer.

Selected Work

NC State University: Fitts-Woolard Hall
Architect / 2016 - 2021

- Programming through Closeout.
- Primary Architecture representative during CA.
- LEED Accredited professional for the first LEED v4 project at Clark Nexsen.
- Developed a database to track and validate programming requirements throughout the design process.
- Computational design to calculate daylighting, energy usage, and a dynamic window layout on the exterior.
- Designed a parametric 3D wood wall that was digitally transmitted to the fabricator.
- Created a methodology to create the complex geometry of the monumental stairs in structural engineering software.
- Created an interactive floorplan using the data from the contractor to quickly illustrate to the architectural team where we needed to punch each day.

Wake Tech : Parking Deck 2
Architect / 2013 - 2016

- Schematic design through Closeout.
- Created a script to explore the most efficient metal panel shape with the least amount of waste.
- Generated a dynamic facade that is solid on the street side and opens up on the forest side, while meeting all the code requirements for fire and fresh air access.
- Created a supergraphic script for the floor levels fabricated out of durable ACM panels.

NC State University: James B Hunt Jr Library
Intern Architect / 2009-2012

- Schematic design through Closeout.
- BIM Coordinator during design.
- Primary Architecture representative during CA.
- Created a database to track all the RFIs and Submittals. The database was such a success that it was deployed firm-wide for all projects in CA.

Charlotte-Mecklenburg: New Main Library
Computational Designer / 2020 - Present

- Involved since the end of Design Development.
- Updating the scripts provided by Snohetta for the curved facade to revise geometry alignments and mullion shapes and sizes.
- Generation and coordination of the loading enclosure geometry and patterns.
- Generation of the custom image on the north facade.
- Generating scripts for the metal panel facades options.
- Generating scripts on the interior for the redesign of the atrium guardrail and stairs. This includes coordination with structural and ensuring the design meets code.

United States Air Force Academy: Cyberworks
Computational Designer / 2021 - Present

- Design and coordination of a computationally designed freeform stair that maintained all the requirements of structure, code, and glass bending constraints.
- Provided a Digital 3D model of the stair for direct generation of formwork.