

## Ryan Knowles

### Manager Industrialized Buildings



## EXPERIENCE

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February 2020- Present

**Manager – Industrialized Buildings, Intertek-PSI,**  
**Office Locations: 1748 33rd St #101, Orlando, FL 32839**  
**Midwest: 104 S. Main St. Vicksburg, MI 49097**

Responsible for the day to day technical operations for the review, inspection and consulting of industrialized buildings. Verifying compliance to applicable building codes and State specific rules and regulations. Verifying code compliance to US standards for industrialized construction as well as working with our team located in British Columbia, CAN to verify Canadian Modular A277 and Manufactured Z240 CSA Standards.

October 2018- January 2020

**Plan Reviewer, RADCO, Inc. 3220 East 59<sup>th</sup> St. Long Beach, CA 90805**

Responsible for reviewing Modular and Manufactured home plans for compliance to applicable building codes and State specific rules and regulation. Managing client accounts and making sure all aspects of the project go smoothly from start to finish. Perform code inspections for Modular and Manufactured Housing units for all construction trades.

April 2016- September 2018

**Engineering/Compliance Manager, Hi-Tech Housing, Inc. 1103 Maple St. Bristol, IN 46507**

Responsible for managing the quality line inspectors, reviewing plans for submission to state and local jurisdictions, meeting with clients on potential and current projects and the overall code compliance on all projects at Hi-Tech.

I worked with professional engineers to get any calculations needed, have them review our personal calculations we completed in house and PE seal our plans. I managed a staff of 6 that provides all conceptual, production and submittal drawings to the plant and customers. I also oversaw 3 inspectors that maintain compliance. I worked on a wide range of projects at Hi-Tech, they range from 4 story apartment complexes, hotels, assisted living buildings and very complex single-family dwellings and HUD homes.





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Hi-Tech Housing was a very unique company in the modular and manufactured housing industry, we really pushed the envelope and had to come up with some very complex engineering. During my 2.5 years with the company I completed numerous calculations structurally, mechanically and electrically. I would also perform in house mechanical, electrical, plumbing, building, fire safety and accessibility reviews once they gave us their final proposed designs. I would then direct my team during the process of creating the state submission package and lastly the production prints for the facility. Our residential cliental did not consist of typical homeowners or builders, we typically build for Architects based out of Chicago and Indianapolis. I personally would work hand in hand with their design teams from start to finish on designing structural, mechanical, plumbing and electrical and make it work in a modular layout. I am very proud to have had a hand in working with the local building officials and community of Oak Park, Illinois to get the permission from the local AHJ to place the first modular home (or building of any type) in the home town of where Frank Lloyd Wright had his office and designed numerous homes. I truly enjoyed teaching the local AHJ how modular works, how everything is engineered and how the compliance process works.

Also, during my 2.5 years with Hi-Tech Housing I assisted in the review and design of all trades listed above but also focused on fire safety and accessibility on (2) 3-story assisted living complexes we built for Atlanta, Georgia. I specified fire assemblies, membrane and through penetrations for the approval packages as well as trained my quality assurance inspectors on how to properly inspect these rated listings.

January 2007- March 2016

**Director of CAD Services, NTA, Inc., 305 N. Oakland Ave., Nappanee,  
Indiana (2015-2016)**

**Direct CAD Operators**

Responsible for managing a team of drafters working on submittals for Modular homes, SIP Panel homes, HUD homes and RV's. We would work on all aspects of design while completing systems packages for manufactures. Personally I worked very closely with the engineering department and would assist the engineers in completing braced wall and shear wall calculation and layouts.



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### **Commercial Account Manager, NTA, Inc., 305 N. Oakland Ave., Nappanee, Indiana (2008-2015)**

#### **Plans Examiner/ Inspector**

Responsible for reviewing plans to current State and National codes for code compliance, we worked with and oversaw jurisdictions in all 50 states. Managing client accounts and making sure everything goes smoothly from the beginning of the project to the final stages. I would perform building, plumbing, electrical, mechanical and accessibility review on Commercial and Residential design packages. When asked upon I would also provide code inspections for modular units on all trades.

### **CAD Technician, NTA, Inc., 305 N. Oakland Ave., Nappanee, Indiana (2007-2008)**

Responsible for designing floor plans for modular homes for numerous states, state submittals for both modular and HUD homes. Work closely with engineers and plan review to provide the best and most accurate prints. I created state submittal and production sets of prints for single-family dwelling, apartments, hotels and numerous commercial projects. Also, played an important role in helping the Director of Engineering at the time implement a standard for the accurate completion of design packages and systems manuals.

October 2005- January 2007

### **Engineering, Indiana Building Systems, Middlebury, Indiana**

Responsible for designing floor plans for modular homes and state submittals for both modular and HUD homes. Drew production prints for both modular and HUD plants and worked closely with our Third Party Agency and State Agencies throughout the Mid-West.

## **EDUCATION**

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2001-2005    Kalamazoo Valley Community College    Kalamazoo, MI  
Associates Degree in Liberal Arts/ Architectural Drafting

1997-2001    Vicksburg Community Schools    Vicksburg, MI  
High School Diploma  
Took four architectural design courses & two drafting courses  
Received the architecture award for the class of 2001



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## **PROFESSIONAL CERTIFICATIONS**

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### **INTERNATIONAL CODE COUNCIL:**

Residential Building Inspector  
Residential Electrical Inspector  
Residential Mechanical Inspector  
Residential Plumbing Inspector  
Residential Combination Inspector  
Commercial Building Inspector  
Commercial Plumbing Inspector  
Commercial Mechanical Inspector  
Building Plans Examiner  
Plumbing Plans Examiner  
Mechanical Plans Examiner  
Plumbing Inspector  
Building Inspector  
Mechanical Inspector  
Accessibility Inspector/Plans Examiner

### **State of Ohio**

Residential Unit Inspector  
Non-Residential Unit Inspector

### **Industrialized Building Commission**

One and Two-Family Dwelling Plans Examiner  
Building Inspector

### **International Association of Electrical Inspectors**

Electrical Inspector, One and Two-Family Dwelling

### **Louisiana State Uniform Construction Code Council**

Residential Building Inspector  
Residential Electrical Inspector  
Residential Mechanical Inspector  
Residential Plumbing Inspector  
Residential Combination Inspector  
Commercial Building Inspector  
Commercial Plumbing Inspector  
Commercial Mechanical Inspector  
Building Plans Examiner  
Plumbing Plans Examiner  
Mechanical Plans Examiner  
Plumbing Inspector  
Building Inspector  
Mechanical Inspector  
Accessibility Inspector/Plans Examiner

### **State of Michigan**

Industrialized Unit Inspector

### **State of California**

Quality Assurance Inspector (QAI)