



# Johan Agudelo

BAP

## Energy Engineer

Johan is a Mechanical Engineer at Harris Energy Solutions with experience in Energy Auditing and Building Commissioning. He graduated from Rutgers University with a Bachelor's degree in Mechanical Engineering. His passion in building sciences has allowed him to quickly relate mechanical engineering theories to energy conservation in building systems. Taking the knowledge of existing building systems, Johan seamlessly applies these principles to new building commissioning.

## EDUCATION

### Rutgers University

Bachelor of Science in Mechanical Engineering 2021

## RELEVANT EXPERIENCE

- Conducted numerous campus-wide ASHRAE Level I, II, III energy audit for high profile clients, including site visit inventory, energy calculations, and energy audit report development
- Performed new building commissioning for building HVAC systems  
Systems include ventilation, controls, chillers, and boilers
  - Compilation of the commissioning plans
  - Design documentation reviews
  - Start-up, pre-functional, and functional checklist creation
  - Execution of checklists
  - Issues database management and resolution
  - Generation of the final commissioning report
- Oversaw inspections of over 70+ Pre- and Post-Inspections sites, including mini energy audits pre-installation and meticulous checks post-installation of HVAC equipment, ensure proper functionality, insulation, and system levelness
- Thoroughly examined and analyzed 300+ site reports prior to client distribution to confirm accuracy, completeness, and adherence to quality standards
- Retro-commissioning for a University where the site visit involved testing several pieces of HVAC equipment including ventilation, chillers, boilers and controls then created an issues database management and resolution
- Retro-commissioning for 18 banks in area performing site visit inventory, testing of several pieces of HVAC equipment such as ventilation and roof top units and identifying Retro Commissioning Measures (RCMs) - RCMs include HVAC system upgrades, lighting upgrades, solar studies, and envelope upgrades
- Ability to produce an effective LEED-like report using ASHRAE standards

## CERTIFICATIONS AND SKILLS

### Certifications:

- Building Performance Institute (BPI)
  - Energy Code Field Verifier
  - Building Analyst Professional
  - Infiltration & Duct Leakage
- Occupational Safety and Health Administration (OSHA)
  - 10 Hour Construction Safety and Health

### Skills:

- Software:
  - MATLAB, Simulink, Maple, Solidworks, Ansys, Microsoft Office Suite, eQuest.
- Languages:
  - Spanish, Italian, English



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