

HVAC Controls Intern at Limbach

Ben Dawson

Background

Getting the Job

Due to COVID-19, many of the internship opportunities I had been pursuing fell through. After a handful of opportunities resulted in nothing, I started to network and ask family/friends for any leads. Luckily, a personal connection had previously worked at Limbach and was able to get me an interview. After the interviewing process I was offered the internship.

Limbach At a Glance

Limbach is an integrated engineering, construction, and service firm providing services such as engineering and design, mechanical contracting, and building automation and controls. Their mission statement is to expand and grow the 1st Choice integrated building systems firm in the US.

Location

I worked out of the Ohio Branch here in Columbus.



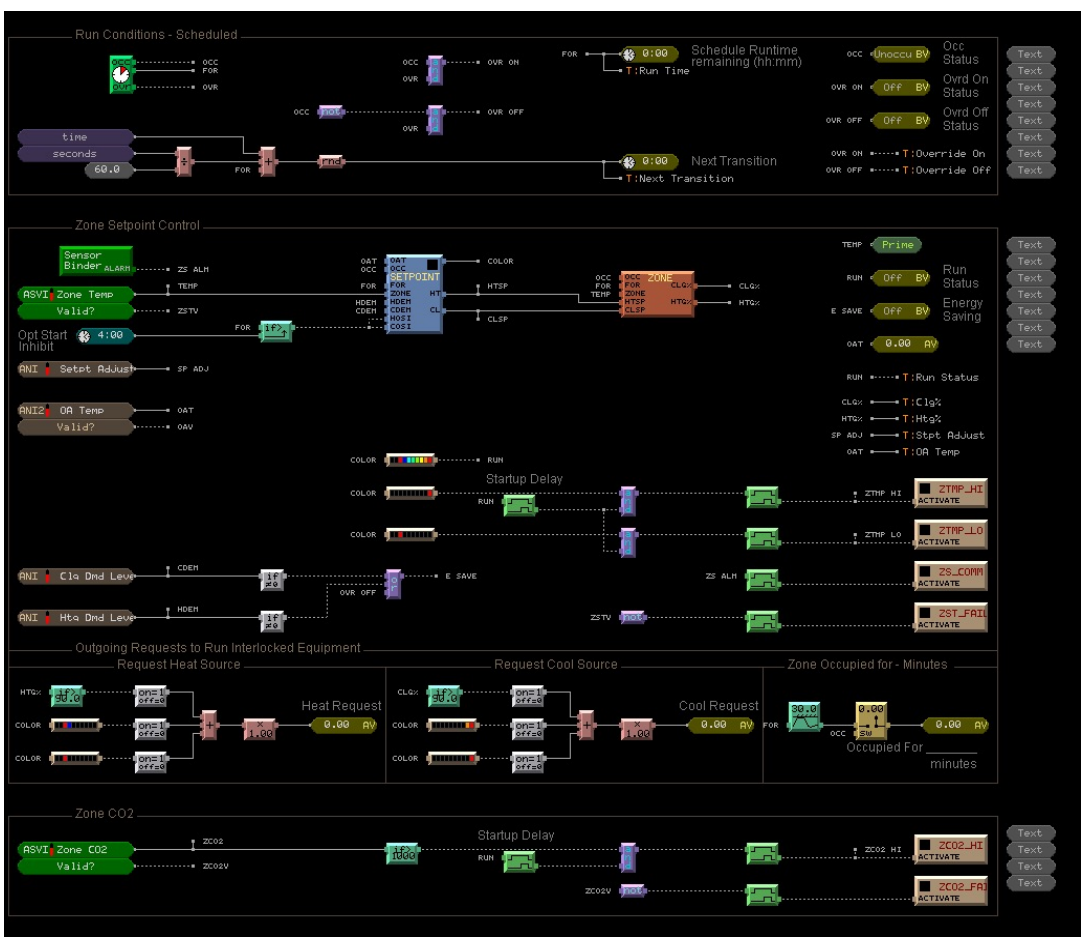
Facebook Data Center

My Role

I worked within the Controls Department where I worked on Building Automation Systems (BAS) projects focused on energy efficiency, sustainability, and cost savings. I worked closely with the Project Management and Engineering Departments on tasks such as project planning, equipment take-offs, forecasting, and implementing/maintaining Building Automation Systems.



Engineering Controlled Rooms Map



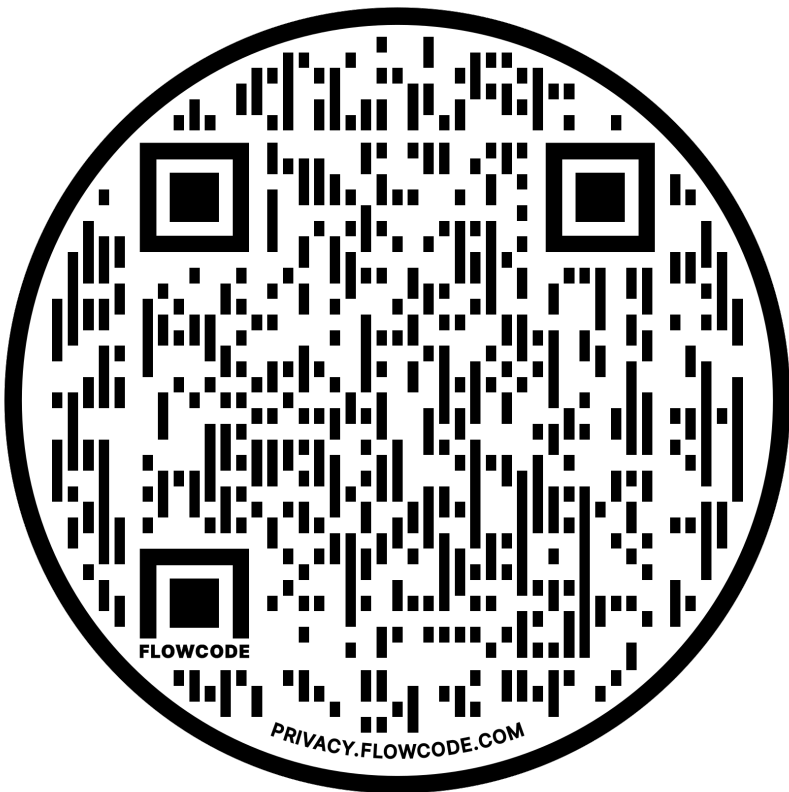
Logic Behind Building Automation Systems

Projects I Worked On

- Facebook
- Mount Caramel
- Wexner Medical Center, Ohio State
- Ohio University
- Westerville Schools
- Worthington Schools

Accomplishments

- Helped manage and maintain over 20 projects with Project Managers
- Assisted in building and maintaining 8 Building Automation Systems (BAS) with the Engineering Department
- Researched and presented a project on Business Sustainability that led to employees being given a flexible work environment
- Selected to be a guest speaker on Limbach's podcast episode, "Sustainability or Bust", with the President of Engineering and the Director of Technology and Innovation



"Sustainability or Bust"
Check it out here!



Title slide of my research project and presentation

Skills relating to the Future

- Experience in the sustainability field
- Understanding of energy management and efficiency strategies
- Experience working with energy efficiency programs and strategies
- Basic mechanical engineering skills
- Professional development
- Experience working in a large firm
- Networking and connections



Air Handling Unit, Marion General Hospital

Advice

- Take advantage of every situation
- Don't be afraid to speak up
- ASK QUESTIONS
- Don't turn away from the unfamiliar
- Step outside of your comfort zone
- Go the extra step to make sure the job is done well

Moving Forward

- Was asked to stay on with Limbach through the school year part-time
- Looking for an opportunity to gain experience in sustainable development in the future
- Will take the skills I learned here and apply them in my next opportunity



Rooftop Unit Replacement, Westerville Schools



THE OHIO STATE UNIVERSITY



LIMBACH