# Net Zero Emerging Leaders Internship

EJ Del Rosario | Opsis Architecture | Energy Trust of Oregon

# **OPSIS NZELI Intern 2024**

EJ Del Rosario

#### Background

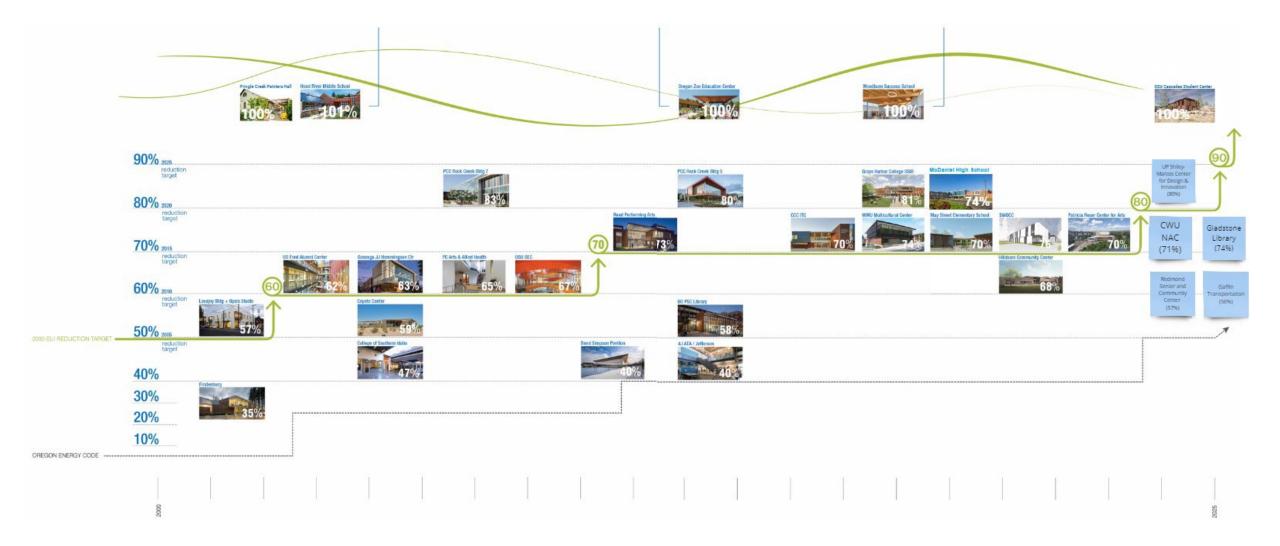
- Current Third-Year M. Architecture Student at the the University of Oregon Portland Campus
- B.S. in Environmental Science at the University of Oregon
- First NZELI Intern for Opsis Architecture

#### **Internship Duties**

- Energy Model with Cove.Tool
- Develop Action Plan
- Document Typical Wall Assemblies
- Support AIA 2030 Reporting



## How is Opsis Doing?

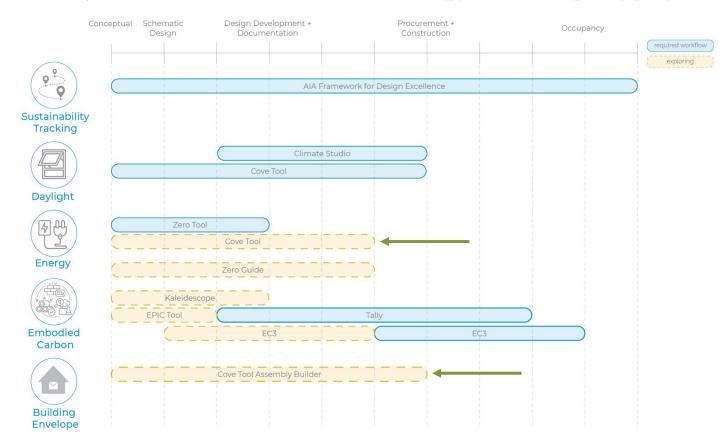


#### **The Tools**

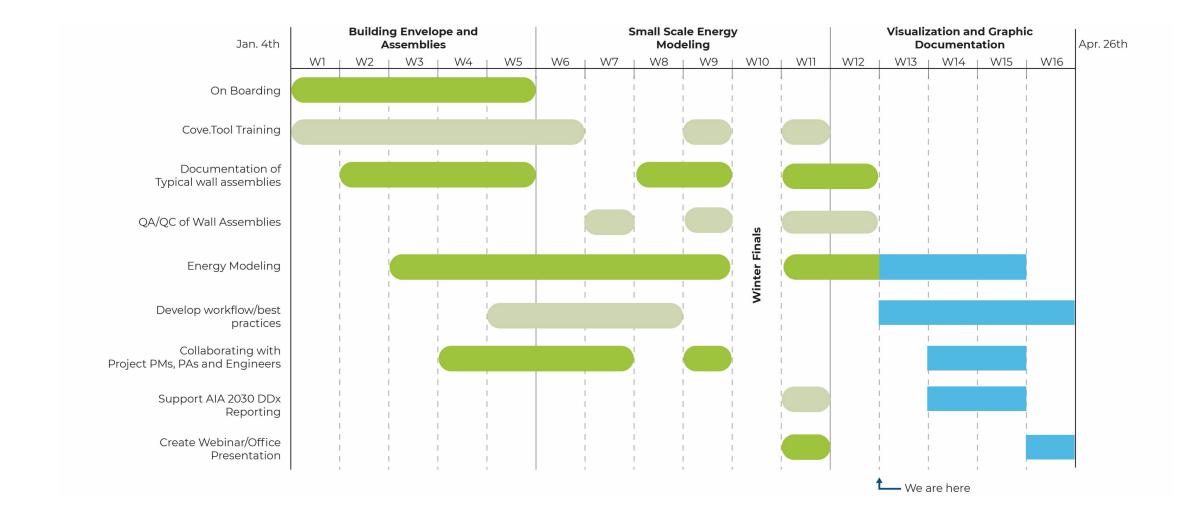
#### Energy, Daylight, Embodied Carbon Analysis

Through early modeling we are better able to identify gaps, improvement opportunities, and connect performance directly to design.

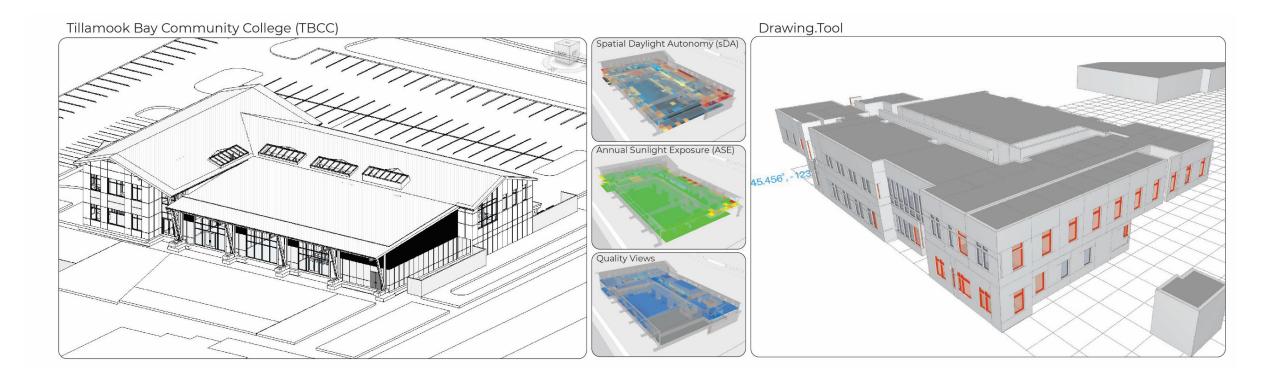
The analysis should start at the earliest stages of design to provide each project team relevant, iterative feedback while a design is still evolving, in order to optimize: orientation and form, embodied carbon reduction, energy performance, shading and daylighting, and building envelope.



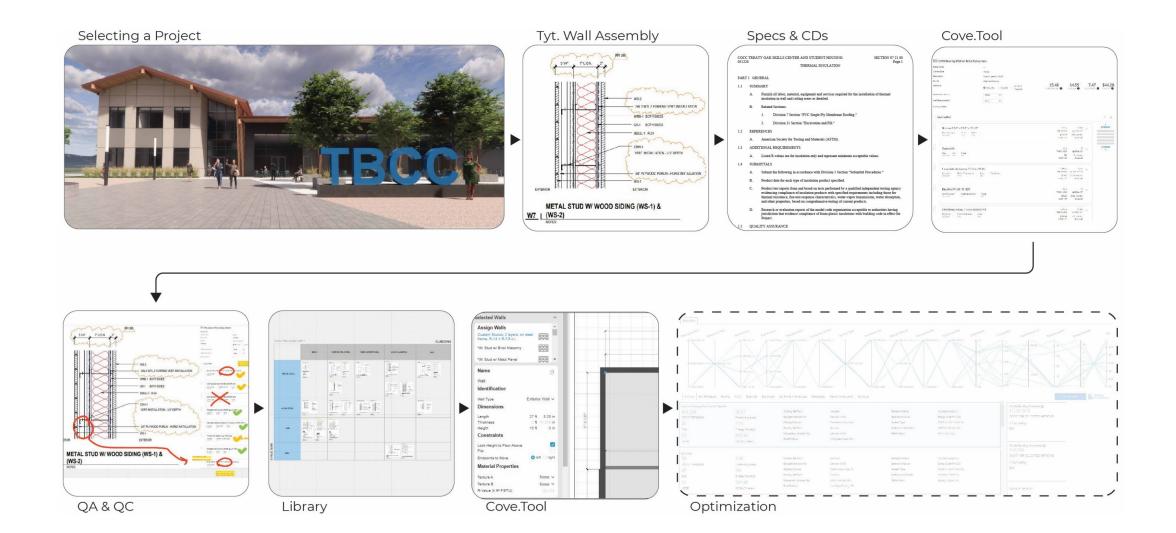
## **Internship Structure**



#### **Cove.Tool Modeling and Analyzations**



#### Wall Assembly Library and Integration



#### **Next Steps**

- Develop Cove.Tool Office Procedure
- Support AIA DDx 2030 Reporting for Next Year
- Introduce "big picture" data points for PMs
- Analyze and Integrate another project of similar scale but in an earlier phase
- Present work to the office



# Highlights

- Working with the Team
- Learning energy goals, metrics, and entities of sustainability
- The range and breath of exposure

#### **Lessons Learned**

- Troubleshooting Challenges
- Time Management
- Professional Growth



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Oregon Zoo Education Center. Opsis Architecture. Photo Credit: Shane Kucera

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