

James Watts

Experience

Walters & Wolf • Fremont, CA

2020 – present

Virtual Design Modeler

As a vital member of the preconstruction team, I actively contributed to the creation of precise 3D models using Revit. These models were instrumental in accurately quantifying materials and labor, enabling us to provide reliable estimates for glass and metal panel facades. Through this process, I developed a comprehensive understanding of curtain wall design and manufacturing workflow. Additionally, I assumed the responsibility of overseeing all modeling aspects of my projects, meticulously finalizing drafts and efficiently managing changes during the design and engineering phase.

- Assisted in securing numerous multimillion-dollar construction projects for Walters & Wolf
- Developed a comprehensive library of adaptive generic models, serving as a versatile resource throughout the entire project lifecycle, from preconstruction to production and manufacturing
- Revamped and modernized bid forms and sales presentation templates, elevating the quality and their effectiveness

Arup • San Francisco, CA

June 2018 – August 2018

BIM Intern

I provided extensive support in various drafting tasks, encompassing the creation of schematic diagrams as well as the production of plan and profile sheets for high-speed rail alignments. Working collaboratively within a team, I played a key role in producing drawings for significant professional reviews and critiques. During this experience, I acquired a deep understanding of Arup's drafting standards and gained proficiency in completing large-scale infrastructure projects

- Contributed to the production of drawings for The Texas High-Speed Rail project
- Developed comprehensive documentation to establish standardized drafting processes
- Assisted with creating schematic diagrams and graphics utilized in reports

Walters & Wolf • Fremont, CA

June 2017 – August 2017

Drafting Intern

Collaborated closely with draftsmen and engineers, actively contributing to the conversion of 2D AutoCAD drawings into 3D Revit components. Played a pivotal role in developing a comprehensive library of standardized mullions and miscellaneous items. Utilizing architectural plans as a reference, I meticulously recreated window units for The Stanford Medical Center.

- Assembled a model in Revit for Stanford Medical center that would be used to produce estimates
- Collaborated with experts within the company to ideate the most efficient method to producing 3D generic models from 2D drawings, producing a library of 3D parts.

Skills

Revit

AutoCAD

Revu Bluebeam

BIM 360

Dynamo

Rhino

Autodesk Inventor

Bentley Microstation

Solidworks

Adobe Illustrator

Adobe Indesign

Adobe Photoshop

Microsoft Office

Education

2013 – 2018

Bachelors of Science in Industrial Design

English literature minor

San Francisco State University

References

Gabriel Avila

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