

MICHIGAN STATE
UNIVERSITY

Beta Presentation

Aircraft Assembly Line Simulator

[The Capstone Experience](#)

Team Boeing

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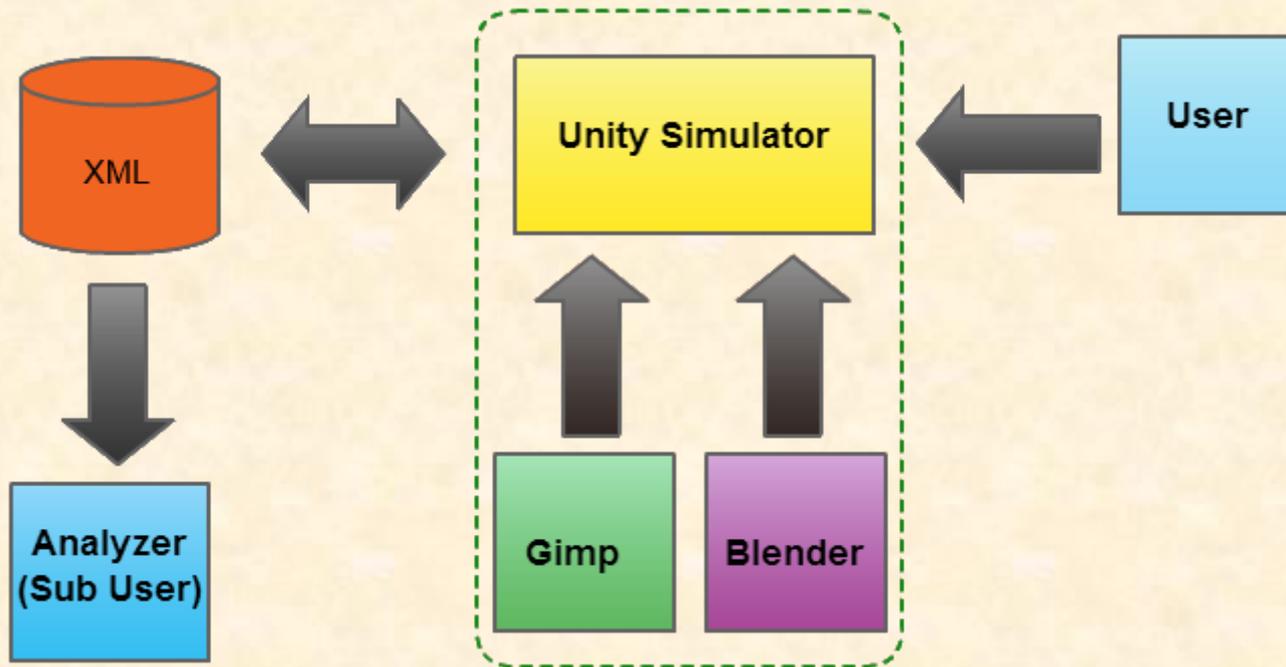
*From Students...
...to Professionals*

Project Overview

- Create a 3D simulation of a Boeing assembly line.
- Compile important data about the construction process.
- Use this data to optimize the design of the assembly line, improving safety and efficiency.



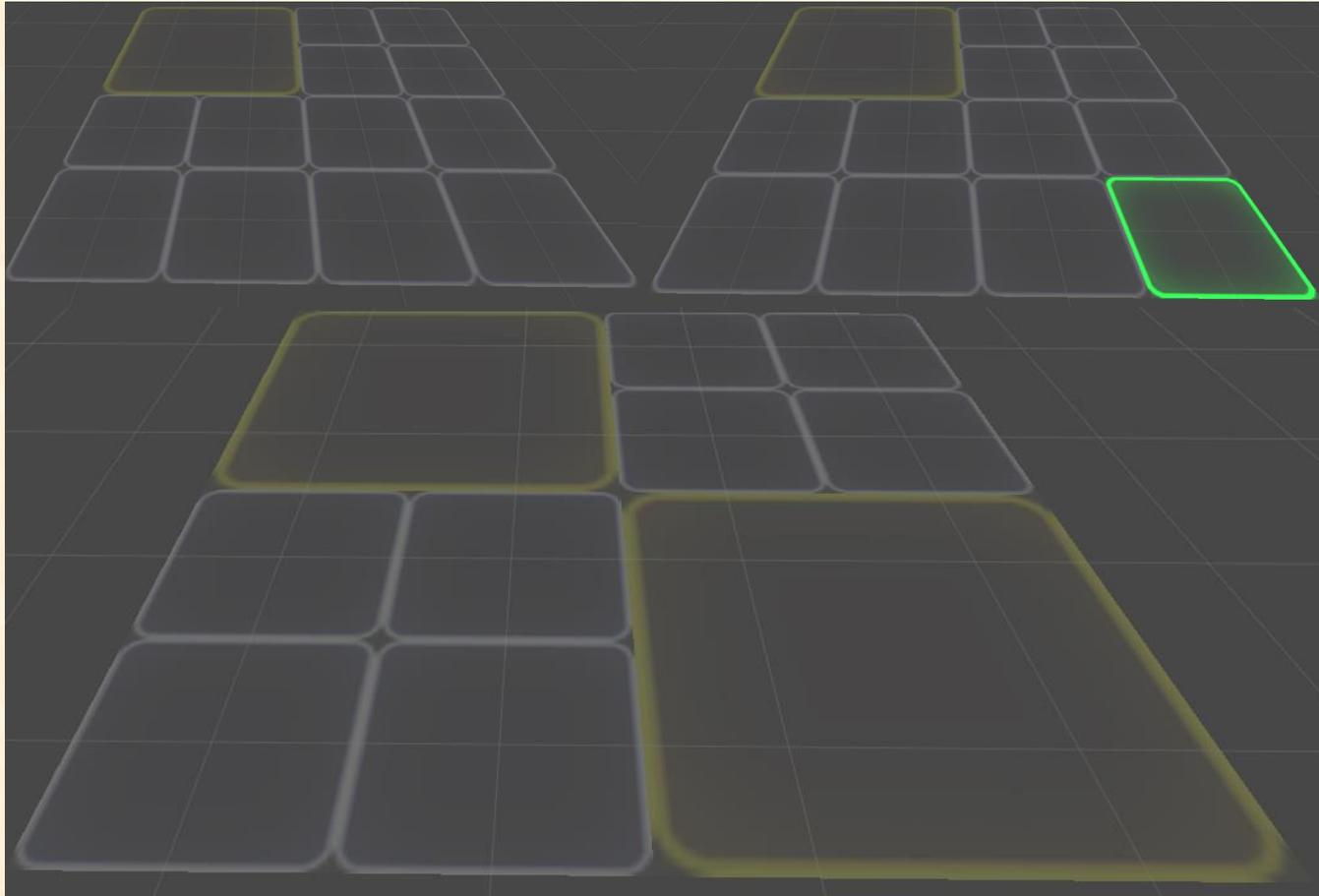
System Architecture



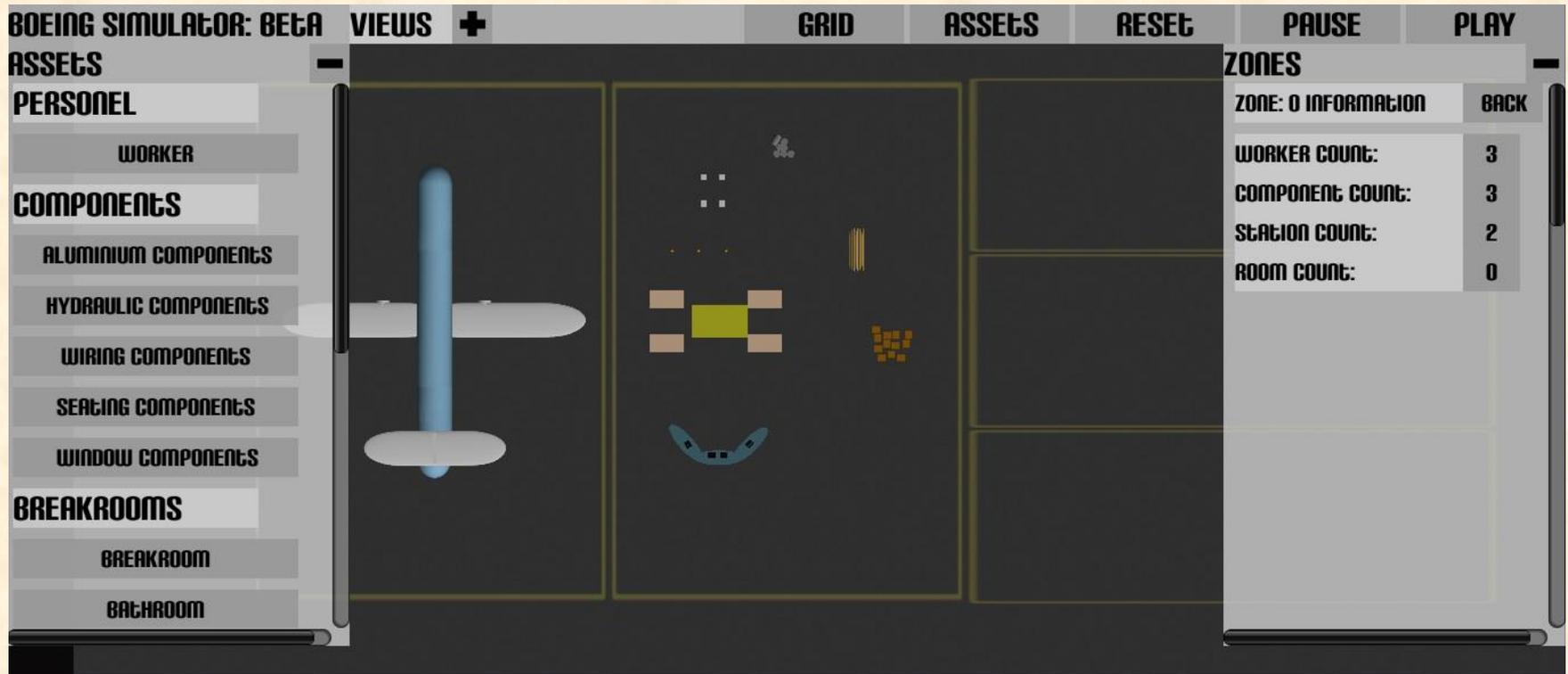
Splash Screen



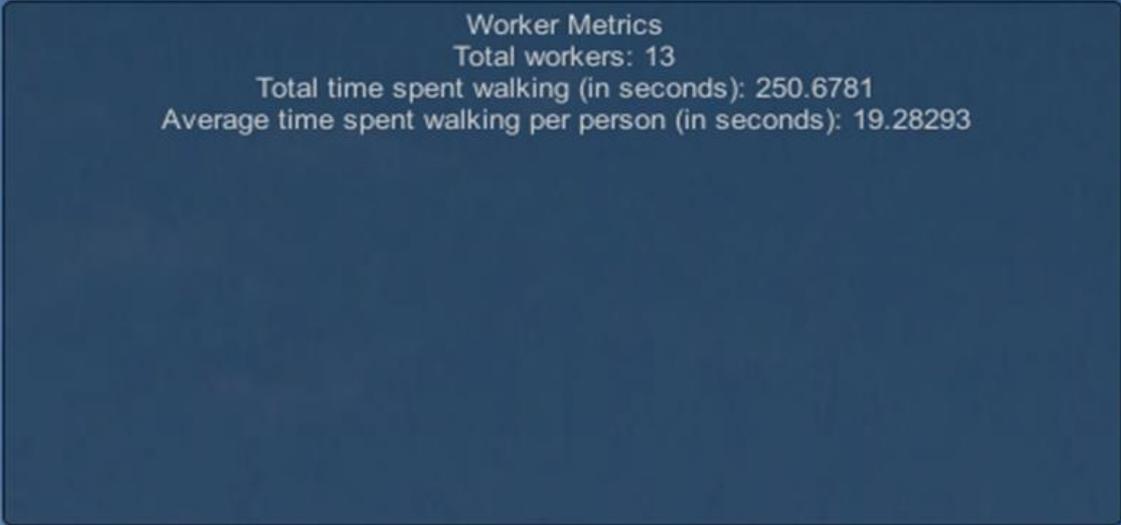
Grid and Zones



User Interface



Metric Readout Screen

A screenshot of a metric readout screen. The screen has a blue background with a white rectangular box in the center containing text. The text is white and lists worker metrics.

Worker Metrics
Total workers: 13
Total time spent walking (in seconds): 250.6781
Average time spent walking per person (in seconds): 19.28293



What's left to do?

- Continue Adding Metric Calculations
- Add More Depth to Aircraft Assembly
- Increase Detail of Models
- Fine-Tune Saving/Loading
- Include Robots and More Machinery

