## MICHIGAN STATE UNIVERSITY Beta Presentation Paper Airplane Factory Simulator

#### **The Capstone Experience**

#### **Team Boeing**

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From Students... ...to Professionals

#### **Project Overview**

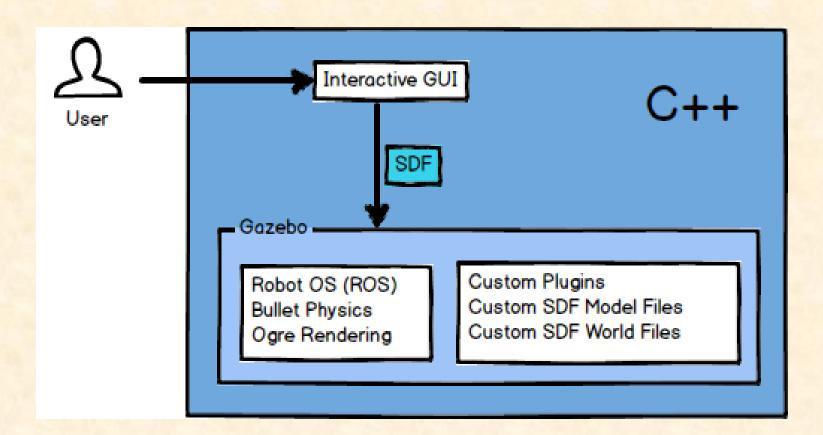
#### Functionalities

- Factory simulation game
- Build paper and model airplanes
- Player arranges factory layout

#### Features

- Humans and Robots
- Object detection
- A\* Path finding
- Technologies
  - C++
  - Gazebo / Bullet (Physics Engine)
  - QT

### System Architecture

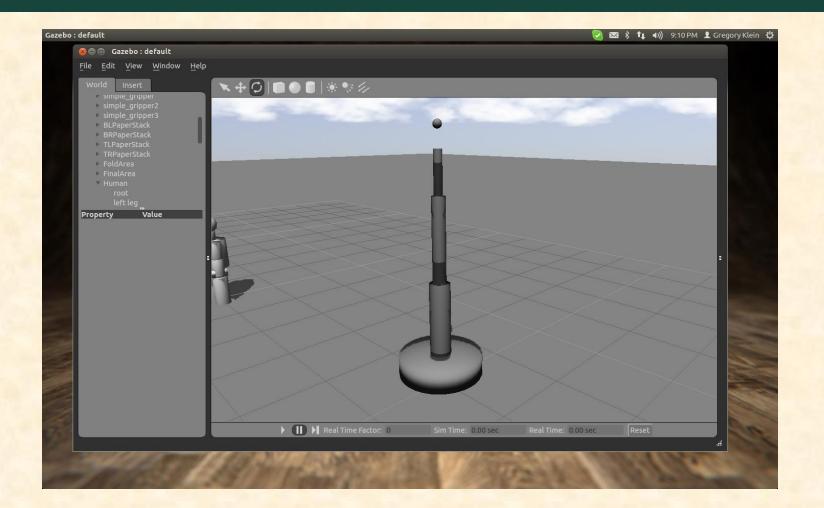




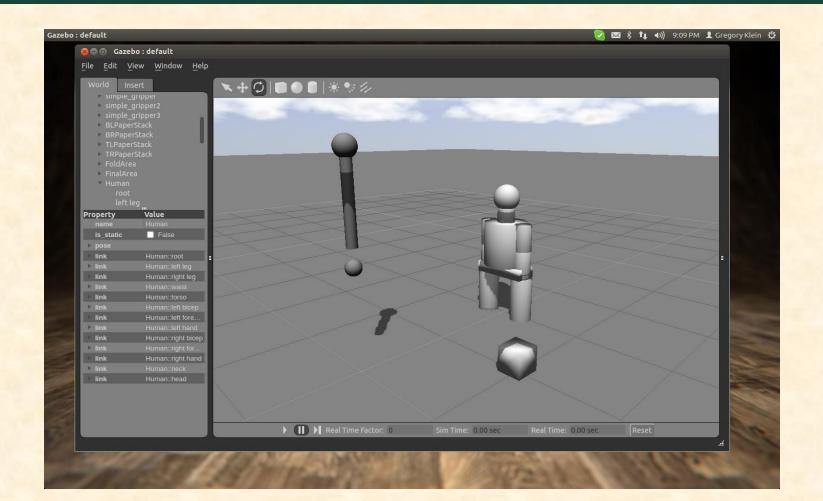
## **Factory Layout GUI**

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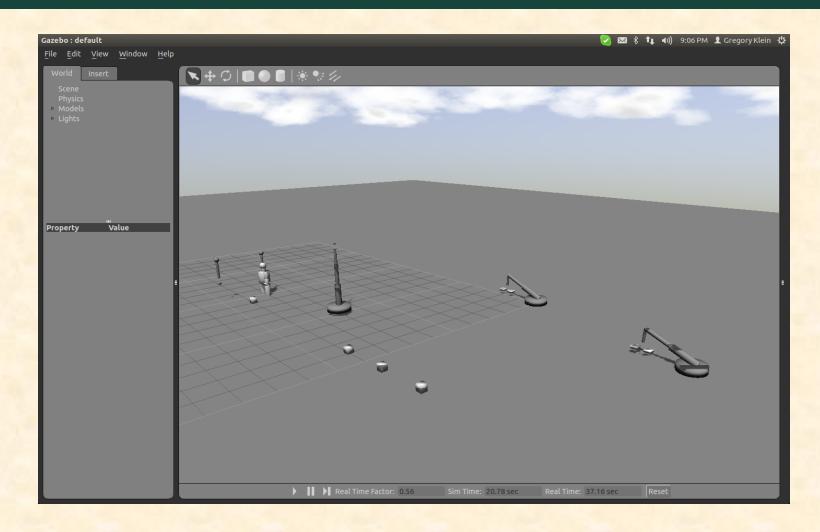
# Robot Arm



### Human and Crane



# **Factory Simulation**



The Capstone Experience

Team < Company Name > Beta Presentation

#### What's left to do?

- Fix bugs
- Make better icons for GUI
- Complete documentation
- Test build script
- Finish video
  - Recording is done