



Optimization of Cargo Liner Fastener Installation

Project Overview/Goals

- Work to improve the tool system and/or cargo liner fastener installation process in the cargo bays of Boeing 737 jetliners
- Give employees better and more ergonomic working conditions

Work Environment

The cargo bay poses ergonomic difficulties such as cramped spaces and sloping walls. Workers kneel or crouch for extended periods of time while installing panels, and pneumatic hoses and boxes of installation equipment limit space and pose tripping hazards.



We designed and built a mock cargo bay in order to test our designs and potential solutions and compare it to the current installation experience of the workers.

Team Members

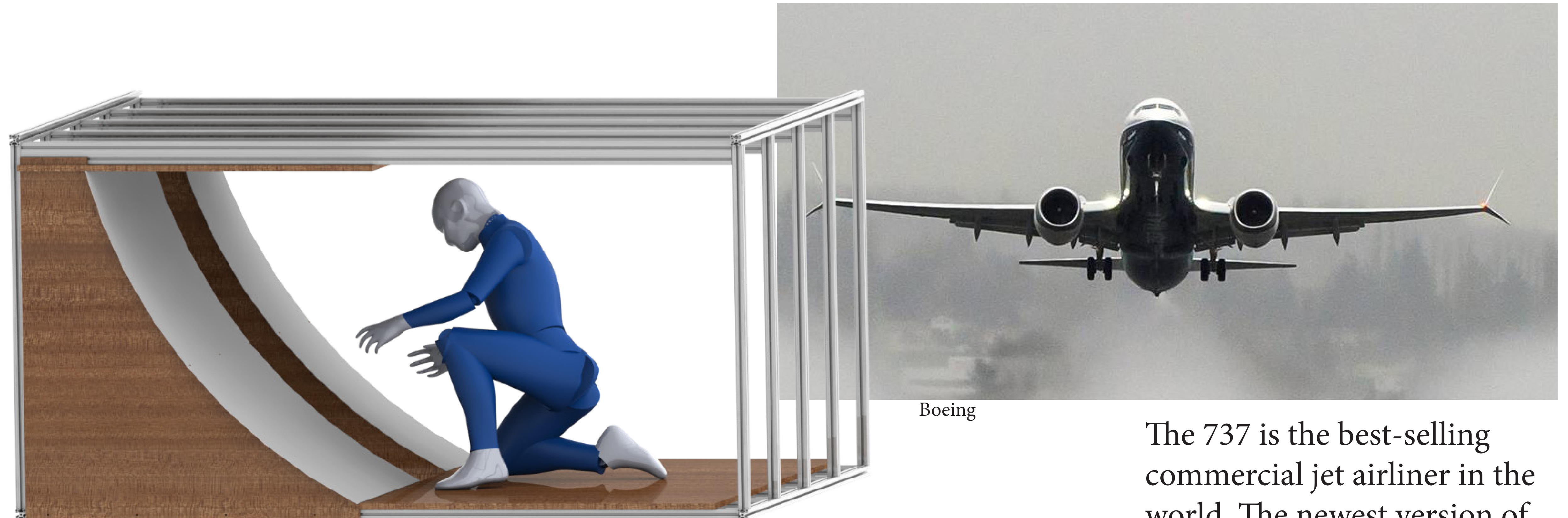
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Boeing

The 737 is the best-selling commercial jet airliner in the world. The newest version of the 737 was released during our project.

Our final design looks to resolve many ergonomic issues by allowing the workers to assemble the cargo bay faster than current approaches.

