Feb 1, 2021 – Meeting Minutes

With Bernard Manderville and Zach Sperling

(notes taken from Quinn Hubbarth)

Introductions:

Zach Sperling

* Mechanical Engineer at Boeing
* University of Kentucky

Bernard Manderville

* Worked for Bosch
* Graduated from RIT in 1998
* Background in Mechanical Engineering
* Less programming experience

General:

Problem Description

* Factory doesn’t have a VR system, but others do
* High upfront costs and a volatile system that could easily become obsolete

Opportunities for VR

* Design Reviews
  + Engineering design reviews indicate how the components are assembled together
  + Tooling design reviews depict the functionality of the tooling
* Factory Simulations
  + A walk through of the 737Max Inlet factory
  + Allow users to move tooling, load components, etc.
* Customer Reviews
  + Allow external/internal customers to review Boeing Engineering/Tooling designs
  + Allow worldwide virtual labs to communicate for live reviews
* Training
  + Conceptualize a virtual training labs
  + For mechanics, engineers, or leadership
  + Train suppliers about the design

Ergonomics

* Studies have been conducted to see about long-term health, etc.,
* Mouse studies have been conducted to see how arthritis could be caused
* Figure out how a more complex ergonomic example could be developed

Action Items:

* Meet with Dr. Robb to receive mentorship on how we should go about building this system as well as give insights on a good solution to implement
* Follow up with Bernard on our solution choice before meeting on Monday, Feb 8th 2021