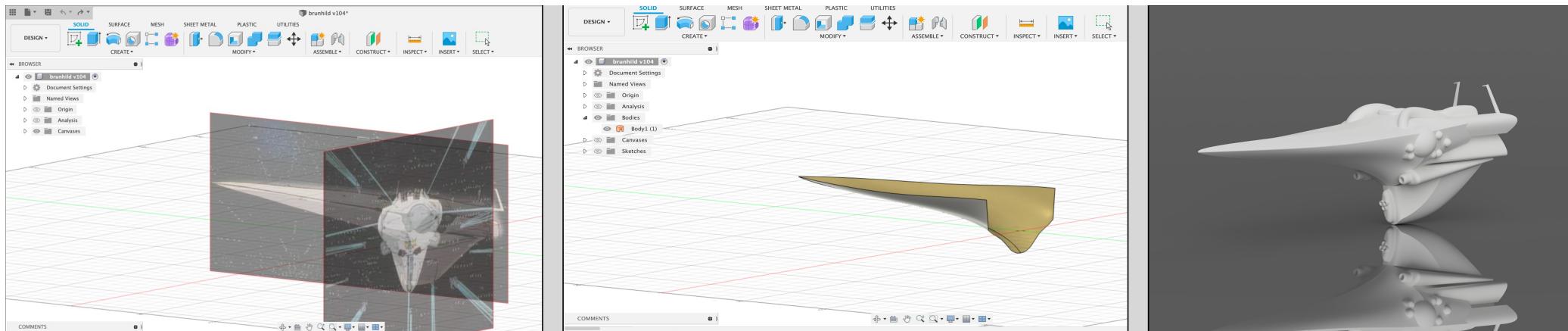


Yang Li

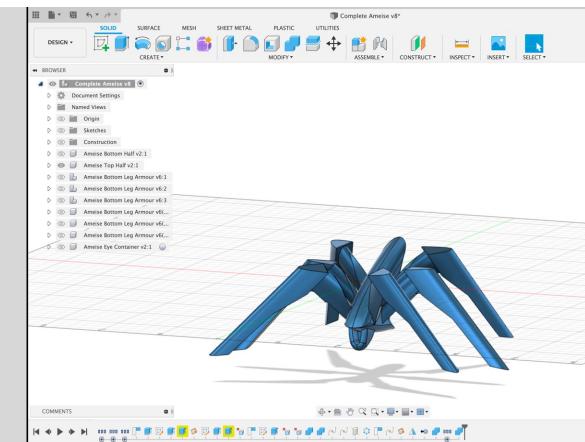
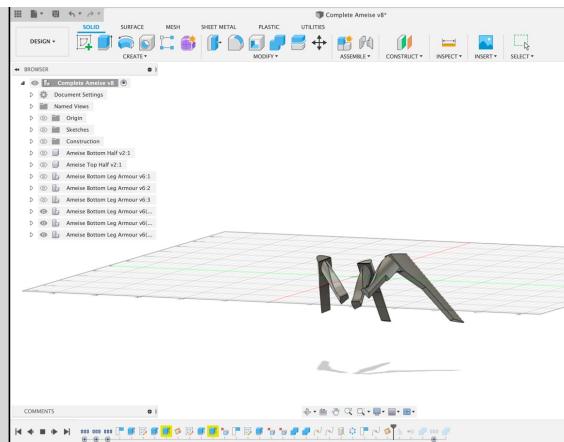
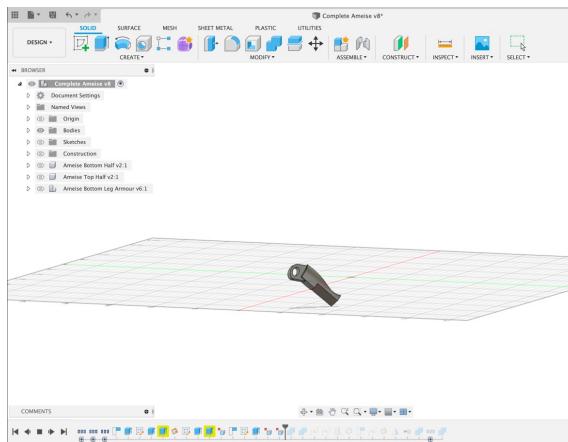
Aspiring Mechatronics Engineer. Experienced 3D Modeler.



Brunhild Model Spaceship

- Assembled frames from the anime that the Brunhild spaceship is from as reference images to aid in modelling and ensure a recognizable model in the end.
- Used surface modelling to form meshes, then stitched together meshes to form solid bodies that were combined with conventional solid modelling to form complex and aesthetically pleasing shapes.
- Printed the final model using a Creality Ender 3 and as 8 separate pieces and then assembled these together to get a physical representation of the model.

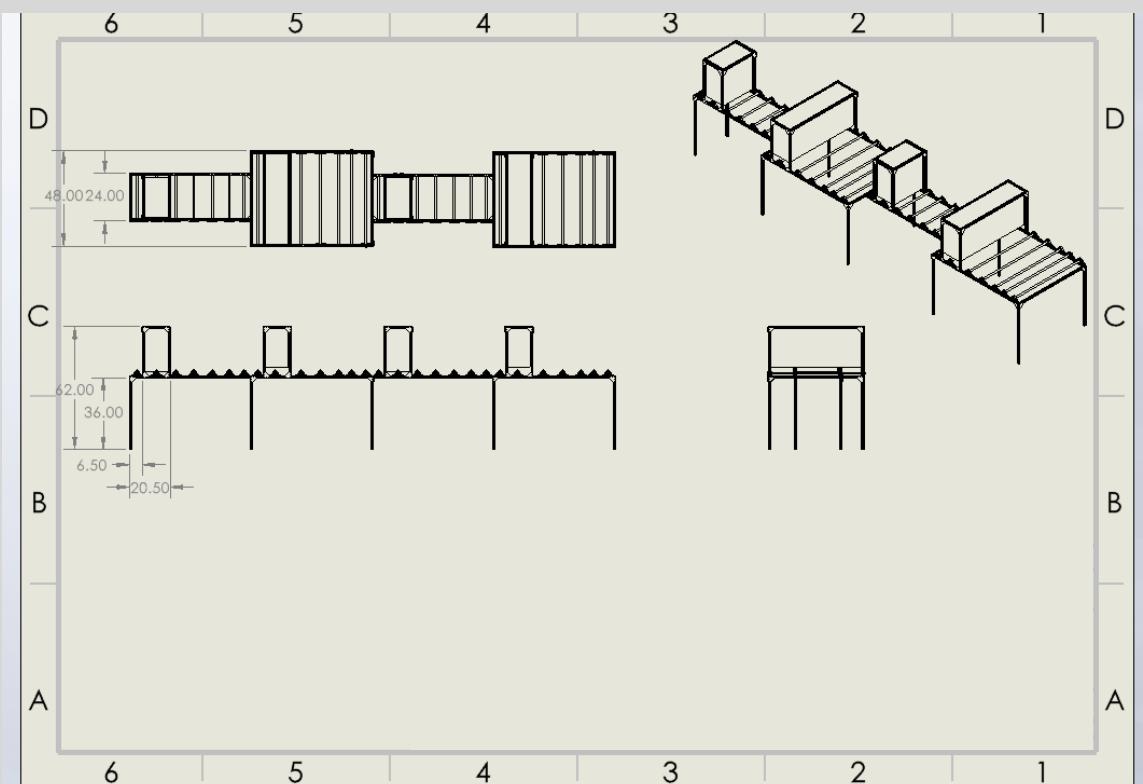
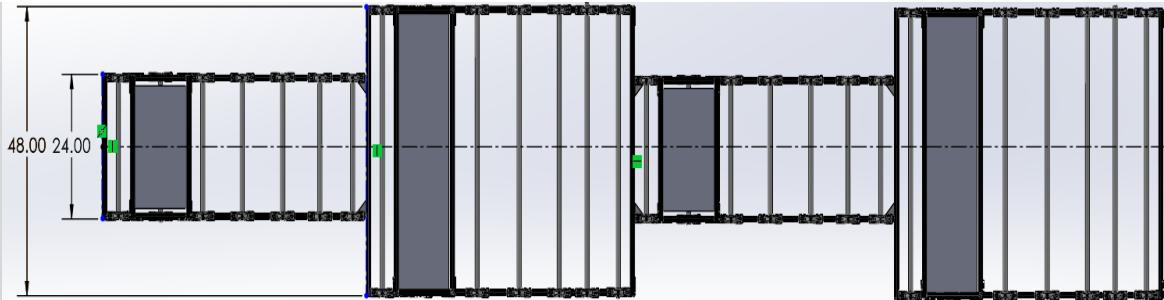
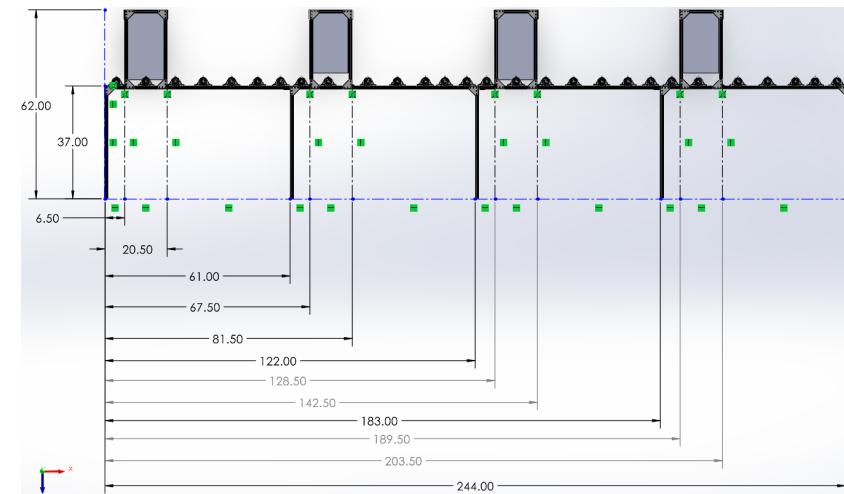




Insectoid Robot Model

- Modelled joints, main body, and outer panel pieces in separate files and imported them into a final file as components.
- Created smooth, curved exteriors with only solid modelling through creative uses of fillet tools.
- Integrated the six legs of the insectoid model by using pattern tools to create identical copies of a single component, saving time and energy in the process.



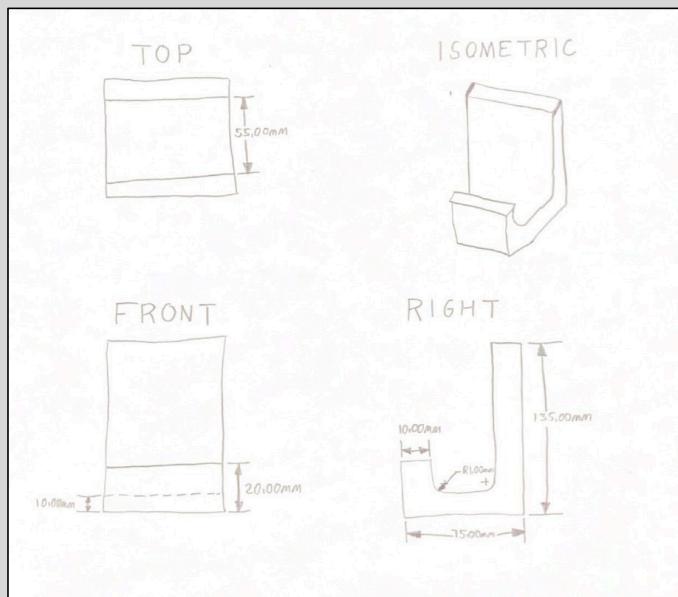


Sorting Conveyor Model

- Used component models from McMaster-Carr to create a SolidWorks assembly with constraints and specific connections between bodies.
- Dimensioned completed model to ensure project requirements, like the minimum length and maximum width of the conveyor system, were met.
- Created a schematic drawing of the completed model with orthographic and isometric views to allow the conveyor belt design to be reproduced or manufactured.

3D Printed Phone Stand Model

- Designed and sketched a simple yet sturdy phone stand model to achieve a user-friendly final product that can be scaled to become compatible with any phone type.
- Used parametric solid modelling to allow for the scaling of the entire model by changing just one dimension.
- Analyzed completed model to determine center of gravity, model volume, and other details important for printing the model.



Model material volume: 3.02 cubic inches
Support material volume: 0.00 cubic inches

