

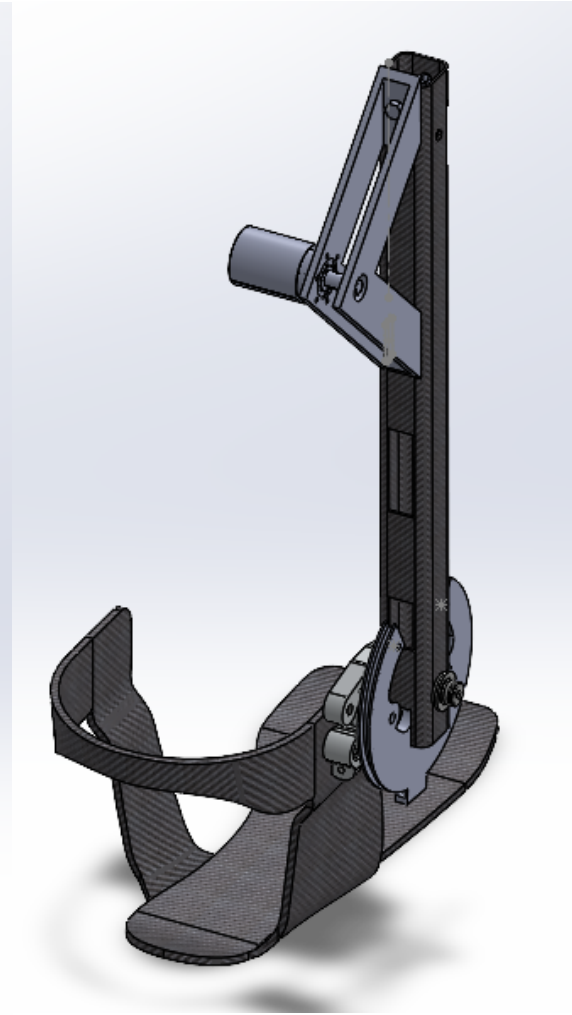
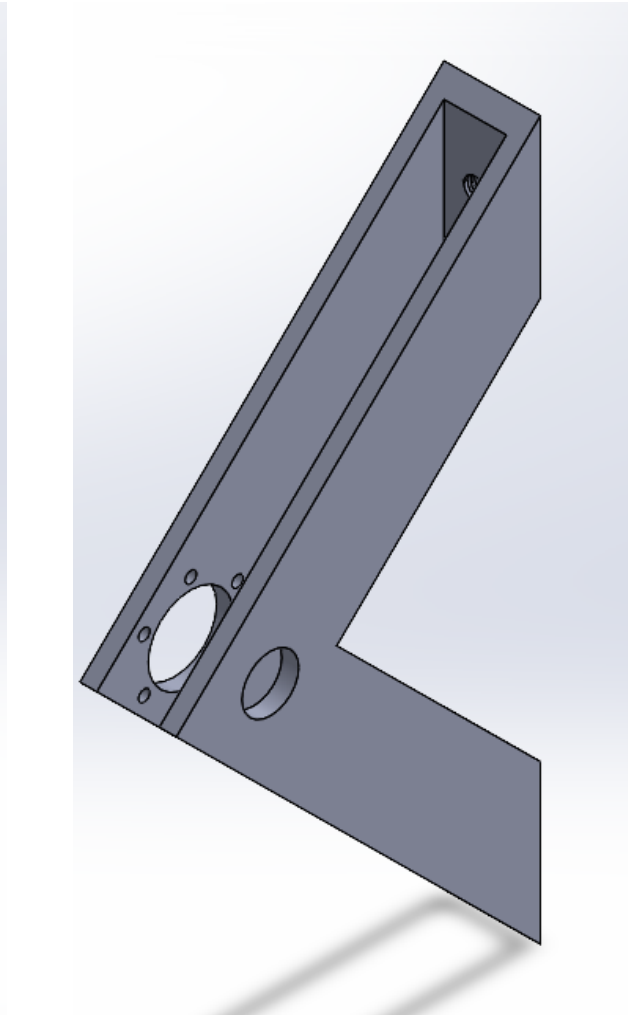
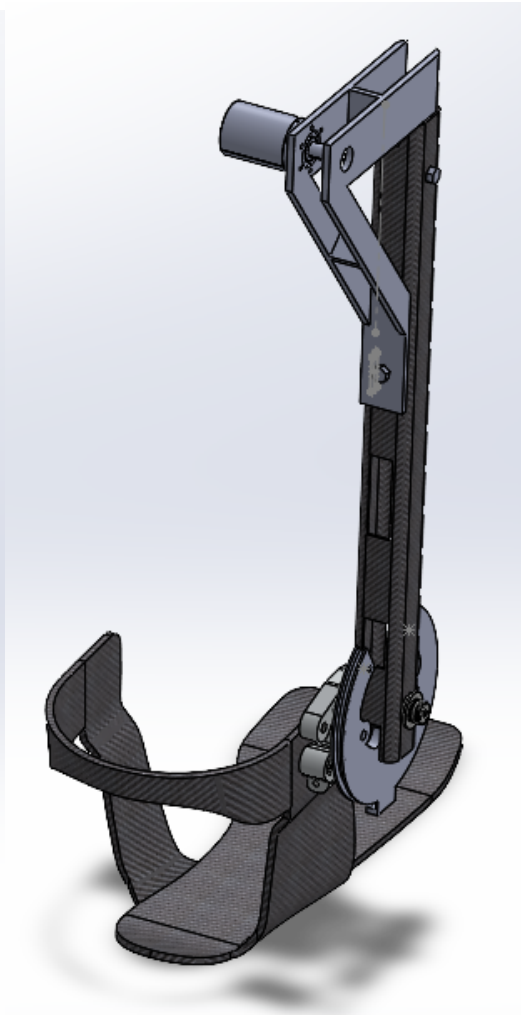
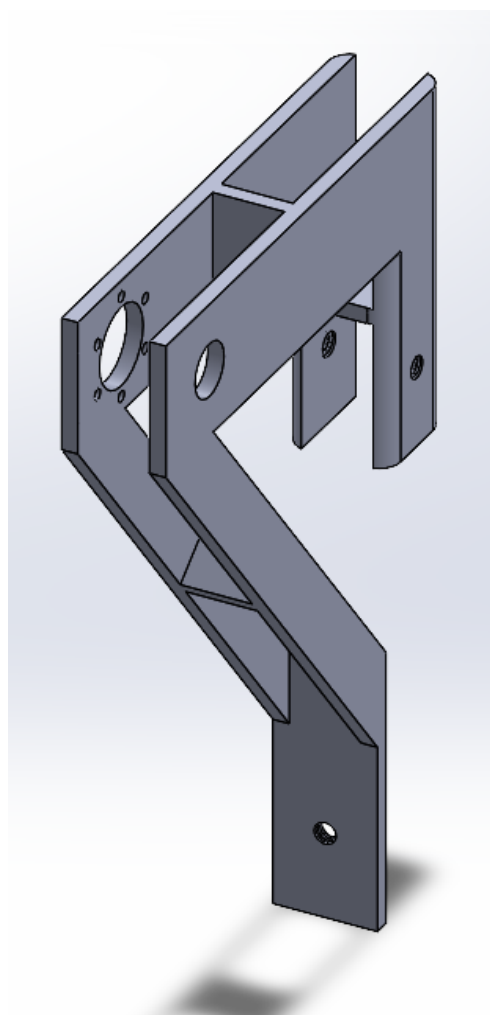
Robotic Ankle Exoskeleton

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Questions Our prototype will Answer?

- How will our bracket Interface with our rod and if there will need to be any adjustments to the current tolerances?
- Which bracket design will be the most stable and rigid?
- To answer these questions, we made two physical prototypes of both bracket designs which our team are considering using.

3D model of bracket Designs



Physical Prototype

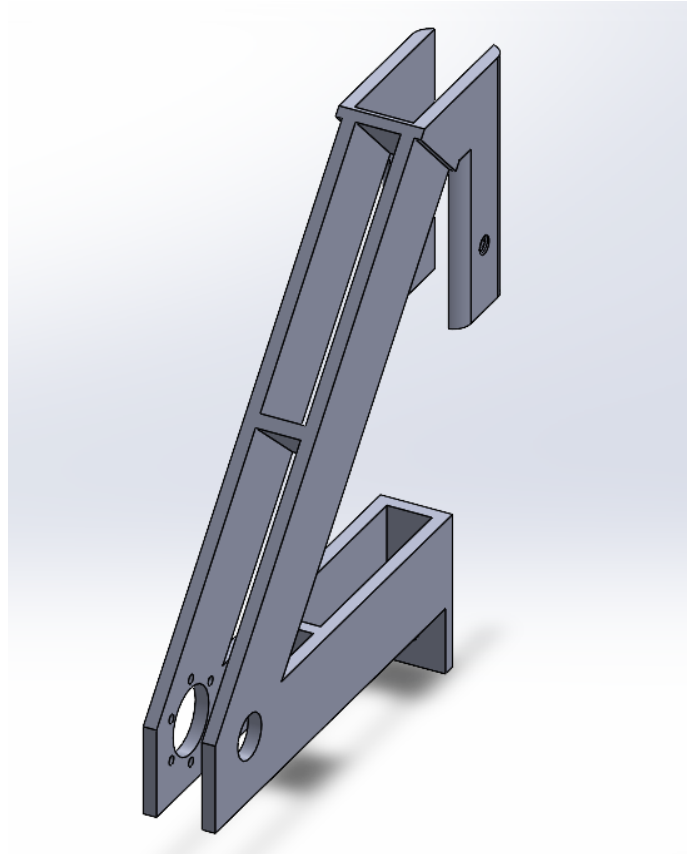


- Each bracket and tubing was 3D printed
- Assembled using the planned nut and bolt type

Answers and Things we Learned

- Both designs were stable enough to work as a design
- The tolerance on one of the brackets needs to be adjusted since the piece that goes into the rod is a little difficult to put inside the rod.
- One valuable thing that we learned was that we need to adjust our design to have the motor placed lower on the rod, so that we can make a smaller hole in the rod for the pulley.
- To achieve this, we plan on combining out two designs.

New Design



Any Questions?



Thank you

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