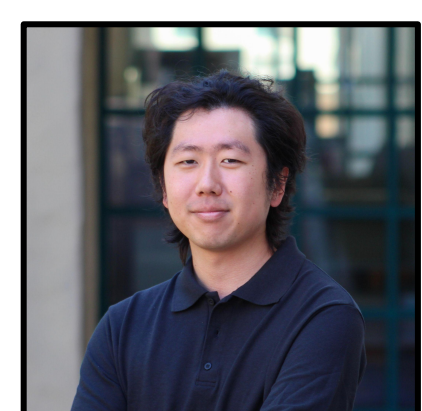


AztechPrime II: Mechanical Arm Integration and Chassis Refinement for Humanoid Robot

AztechPrime | James Silberrad Brown Center for Artificial Intelligence | Sponsored by Dr. Aaron Elkins

The Team



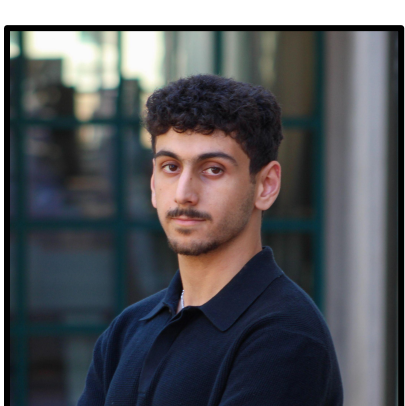
Ray Kim
C.E. Lead



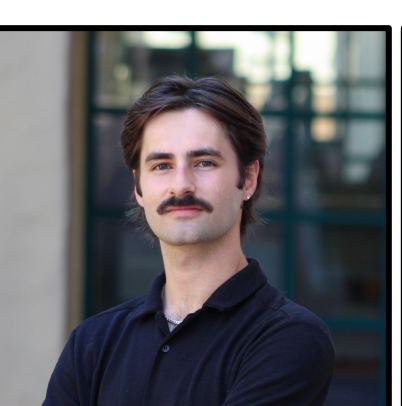
Chris Krikorian
M.E. Lead



Laith Oraha
C.E.



Sean Hashem
C.E.



Dominic Lüscher
M.E.



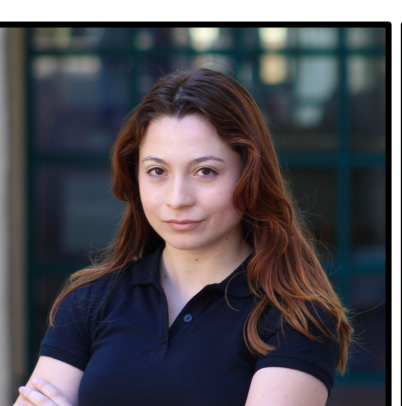
Tanner Moore
M.E.



Parsa Farahani
C.E.



Edwin Alvarado
C.E.

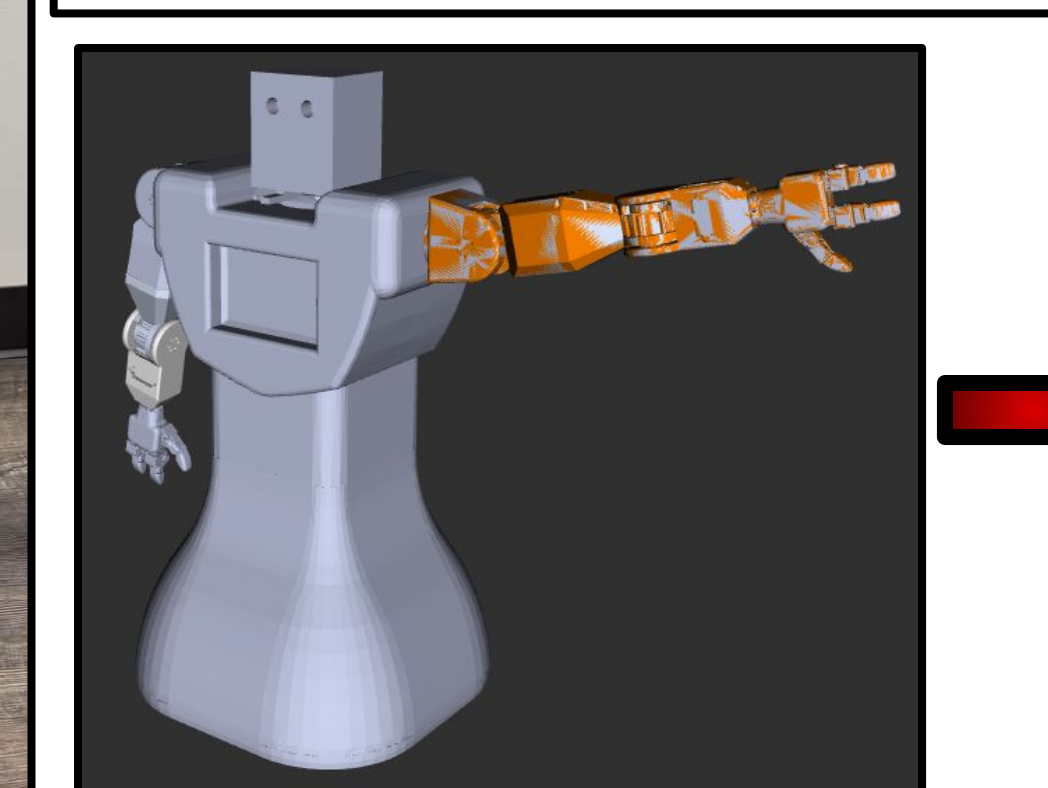
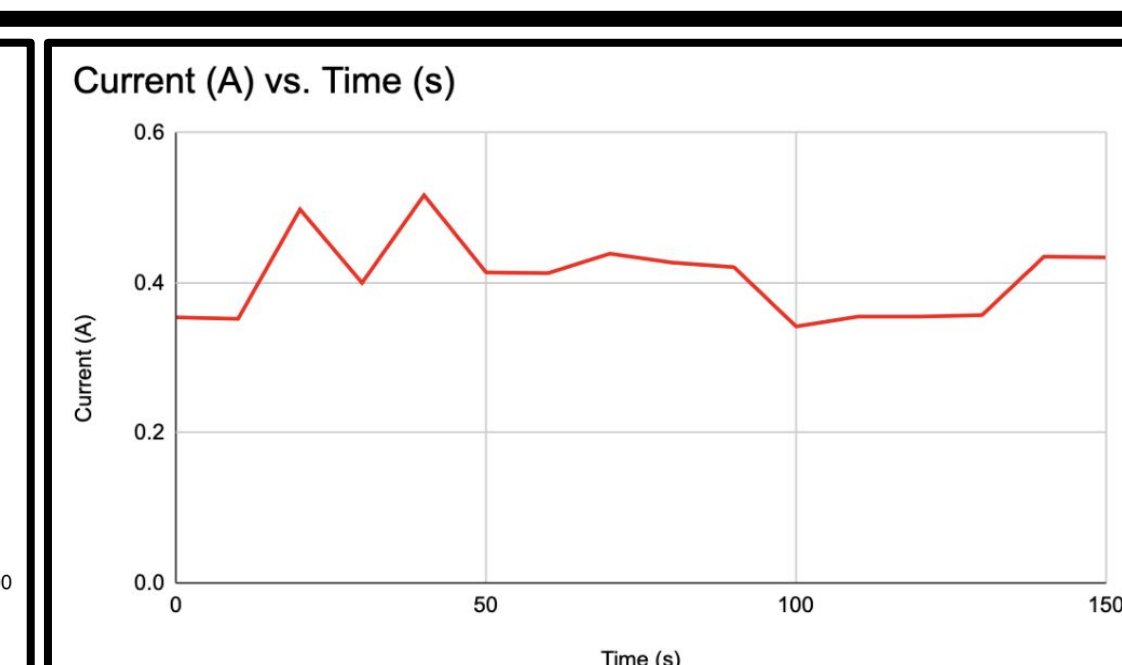
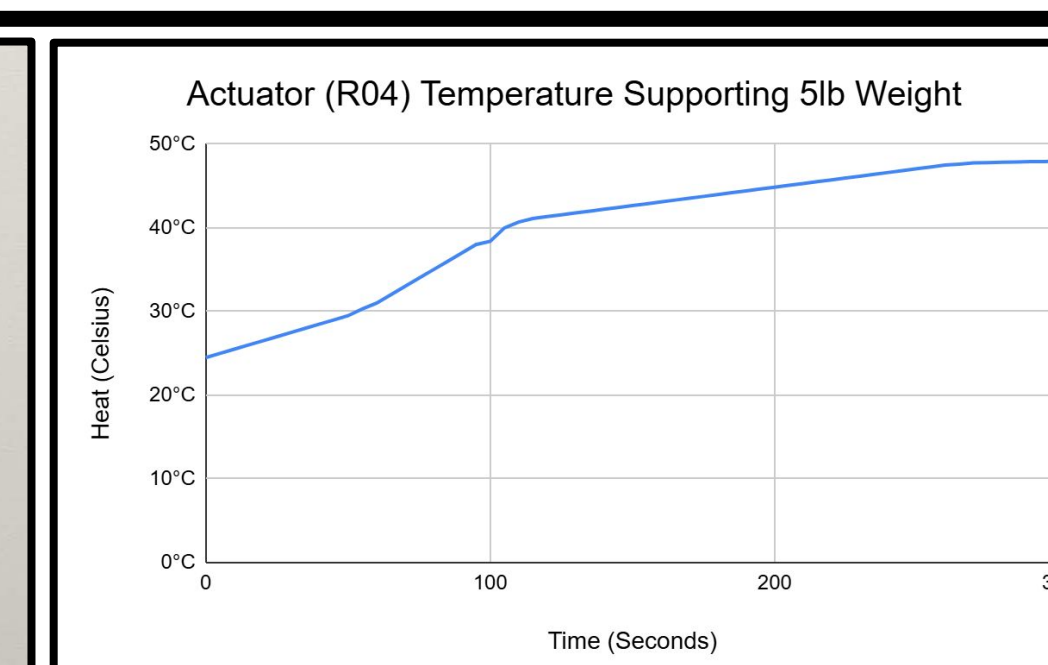
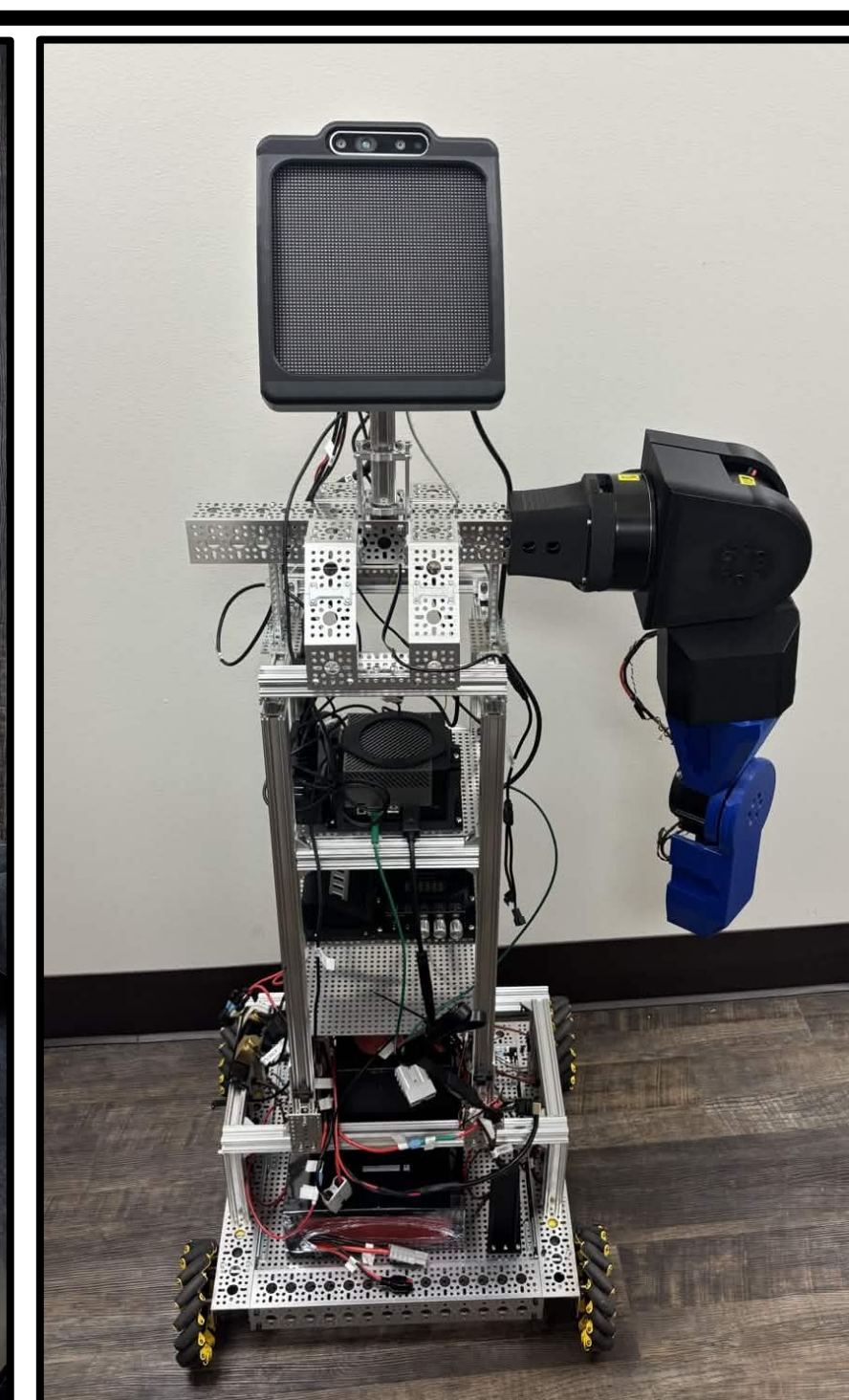
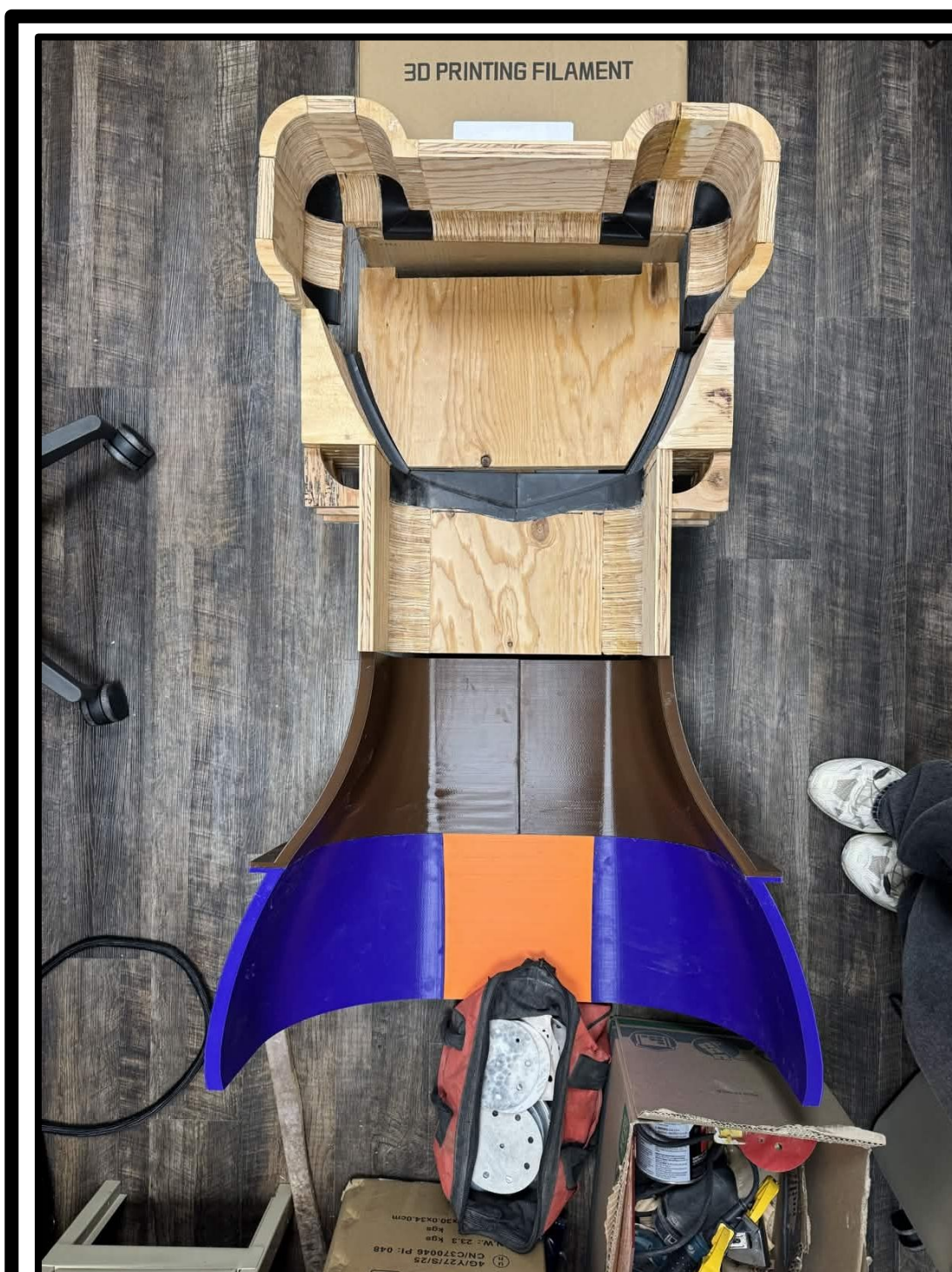
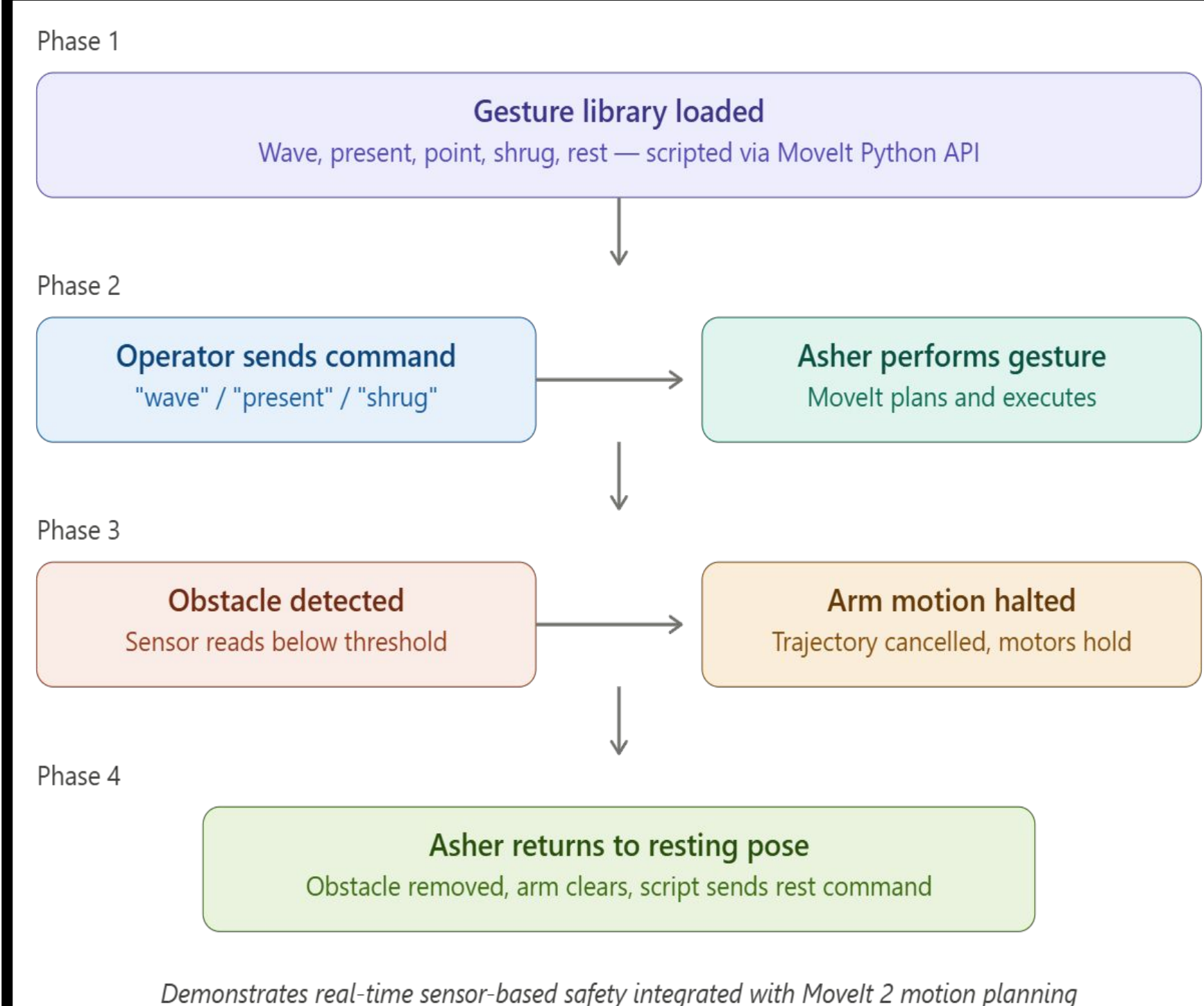


Sarai Santana
M.E.



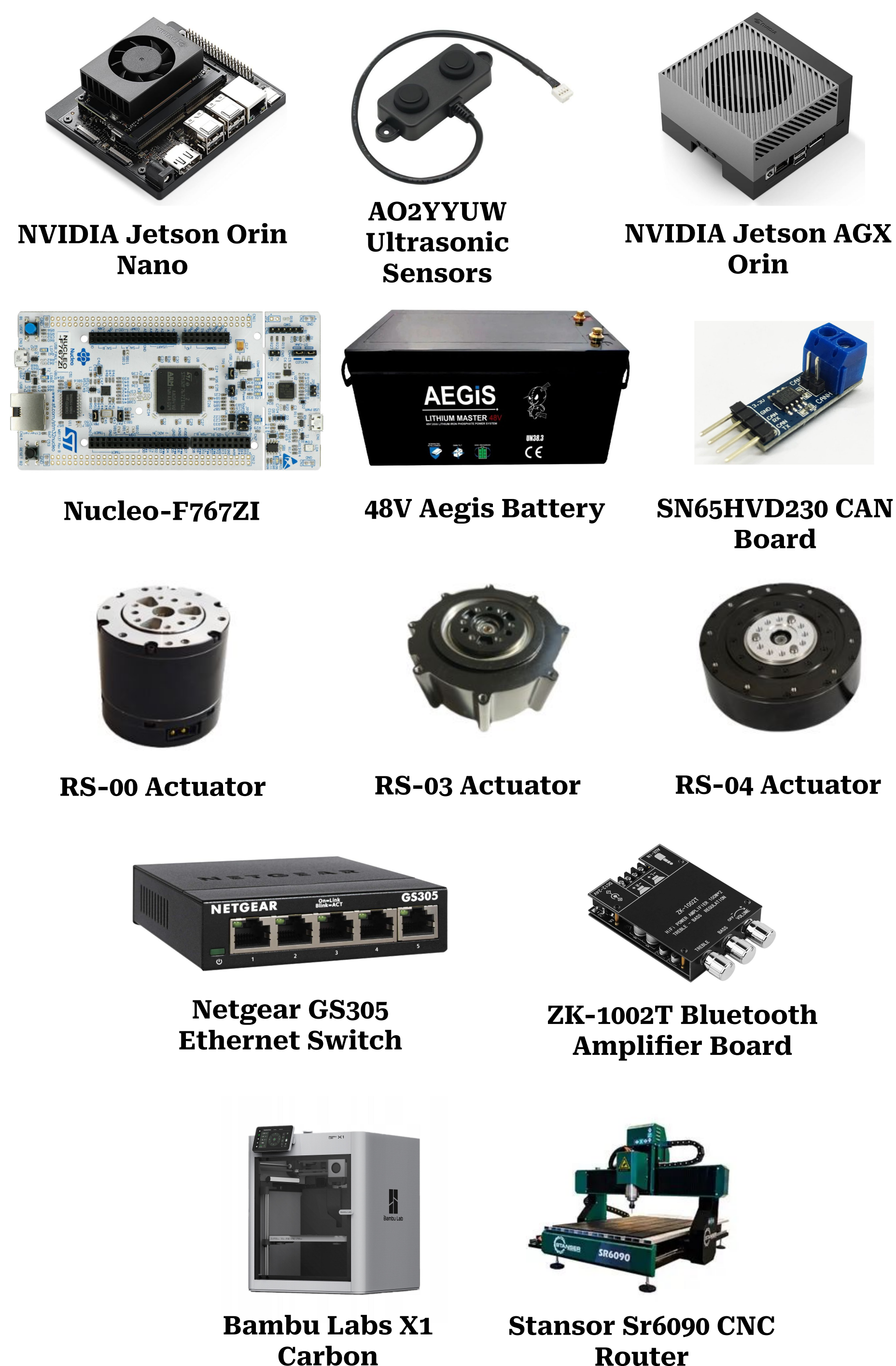
Victor Lira
M.E.

System Demonstration Flow

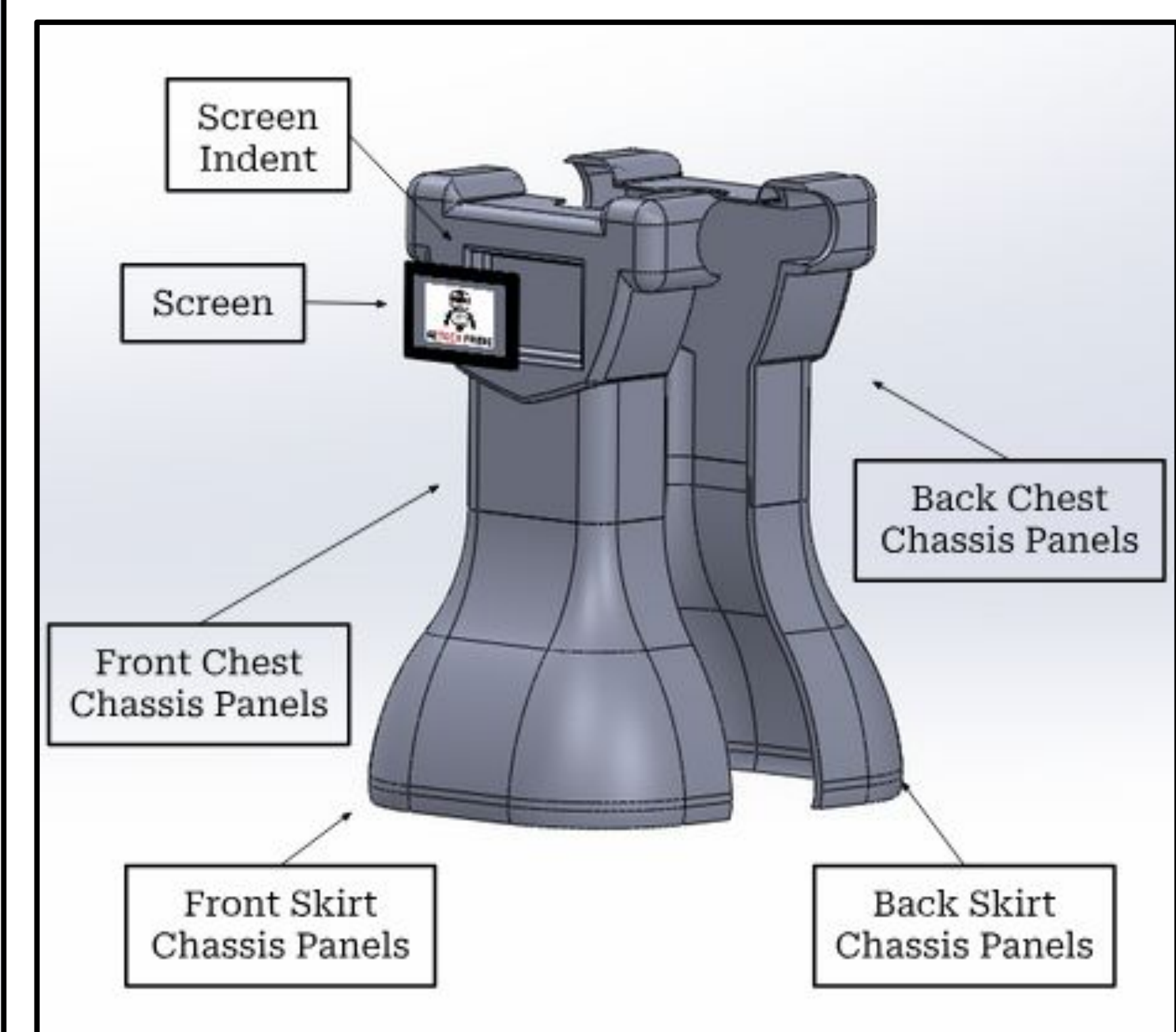
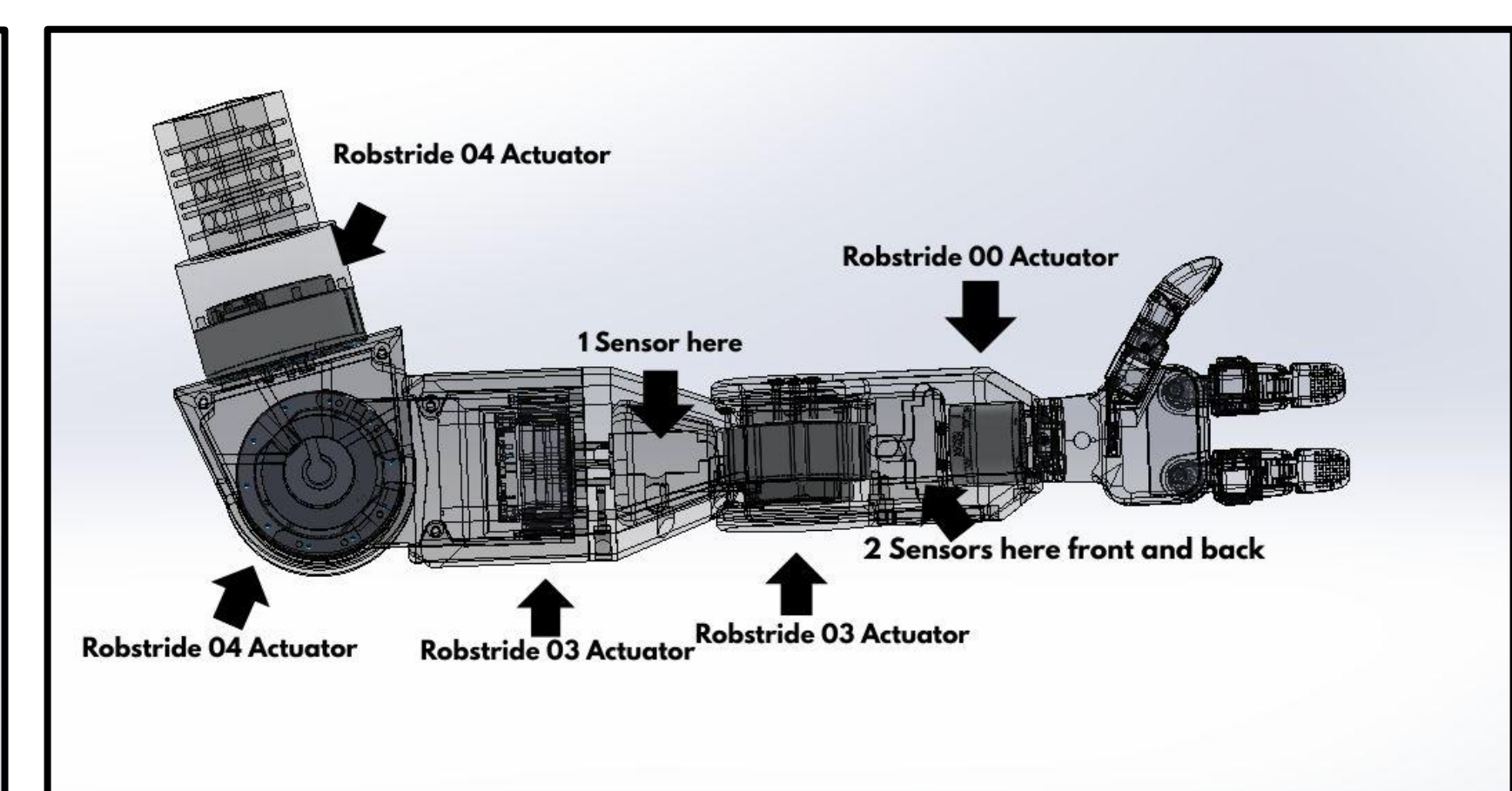
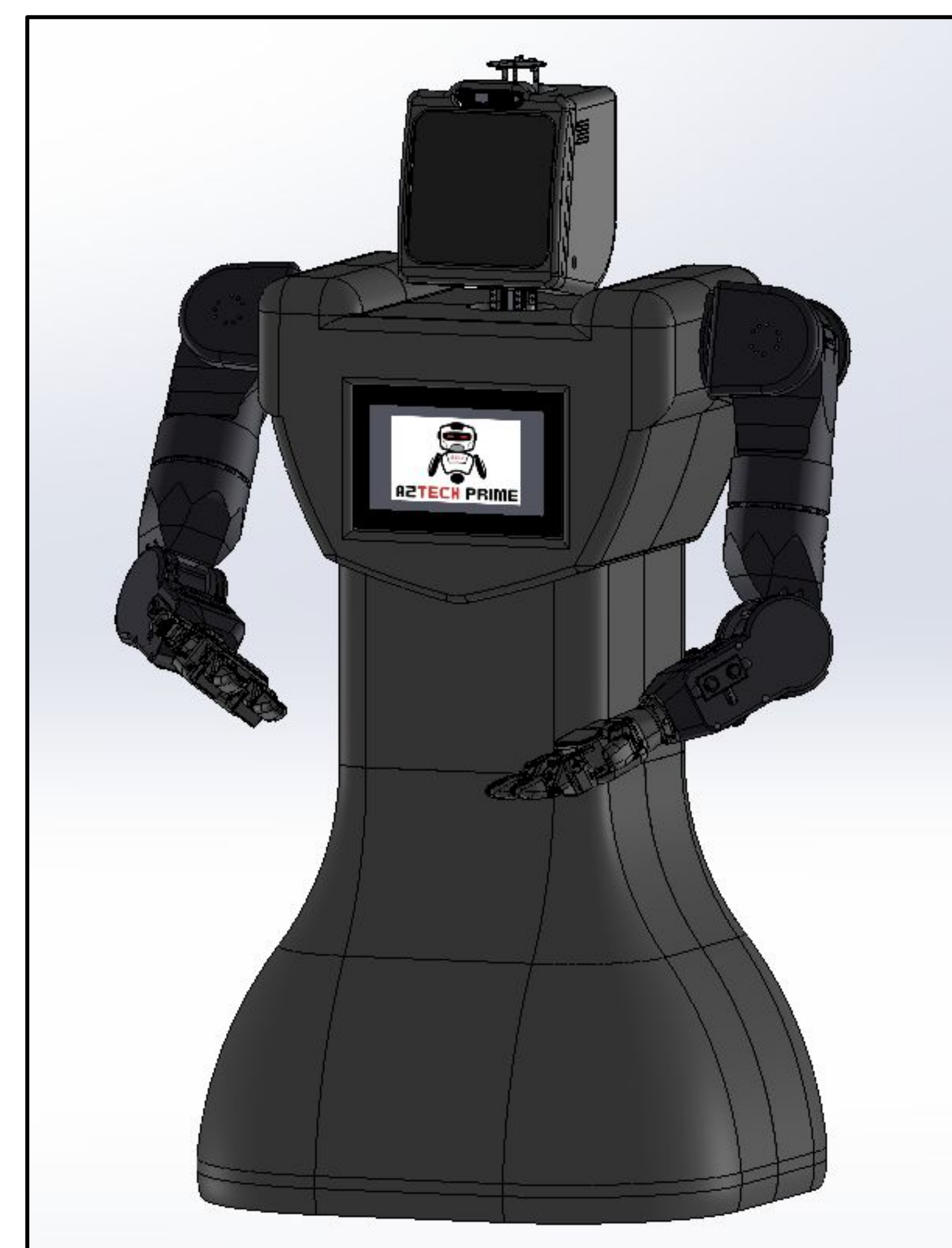


Testing and Verification

Key Components



Final Assembly



Overview

Vision

SDSU AI Center's AztechPrime is a multi-year project with the goal to create a modular humanoid robot designed for social and emotional interaction, with applications in healthcare and education. In the previous year, a prototype frame with mounted components necessary for computation and speaking was developed.

Goal

Mechanical arm development and integration, along with chassis refinement was accomplished this year.

Acknowledgement

We express our gratitude to Dr. Aaron Elkins, Director of the JSB Center for AI, for sponsoring and making this project possible. We also thank Phillip Amadasun for their mentorship and support in the JSB Center. Finally, we thank Professor Paolini and Professor Shaffar for their valuable guidance throughout Senior Design.

System-Level Diagram

