

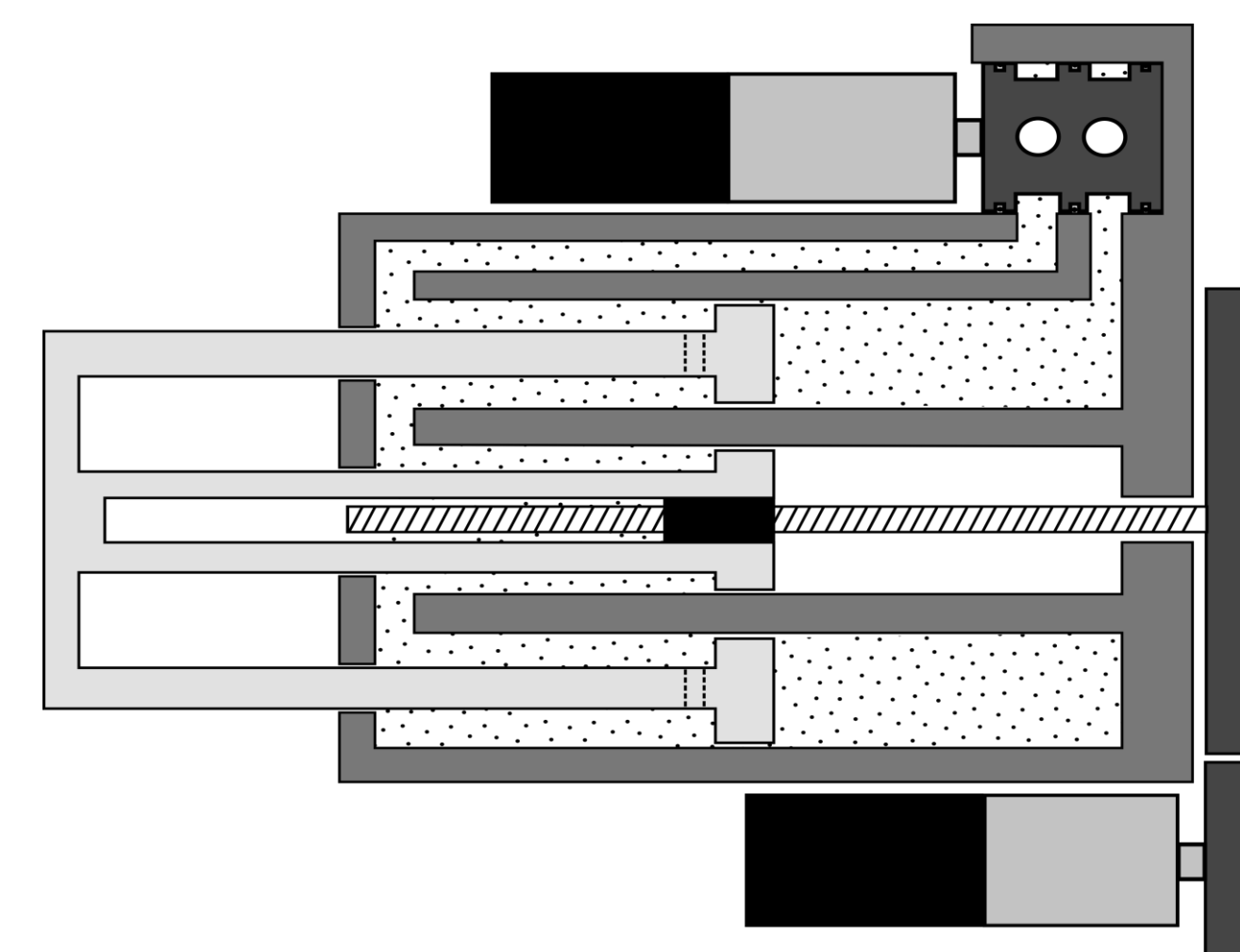
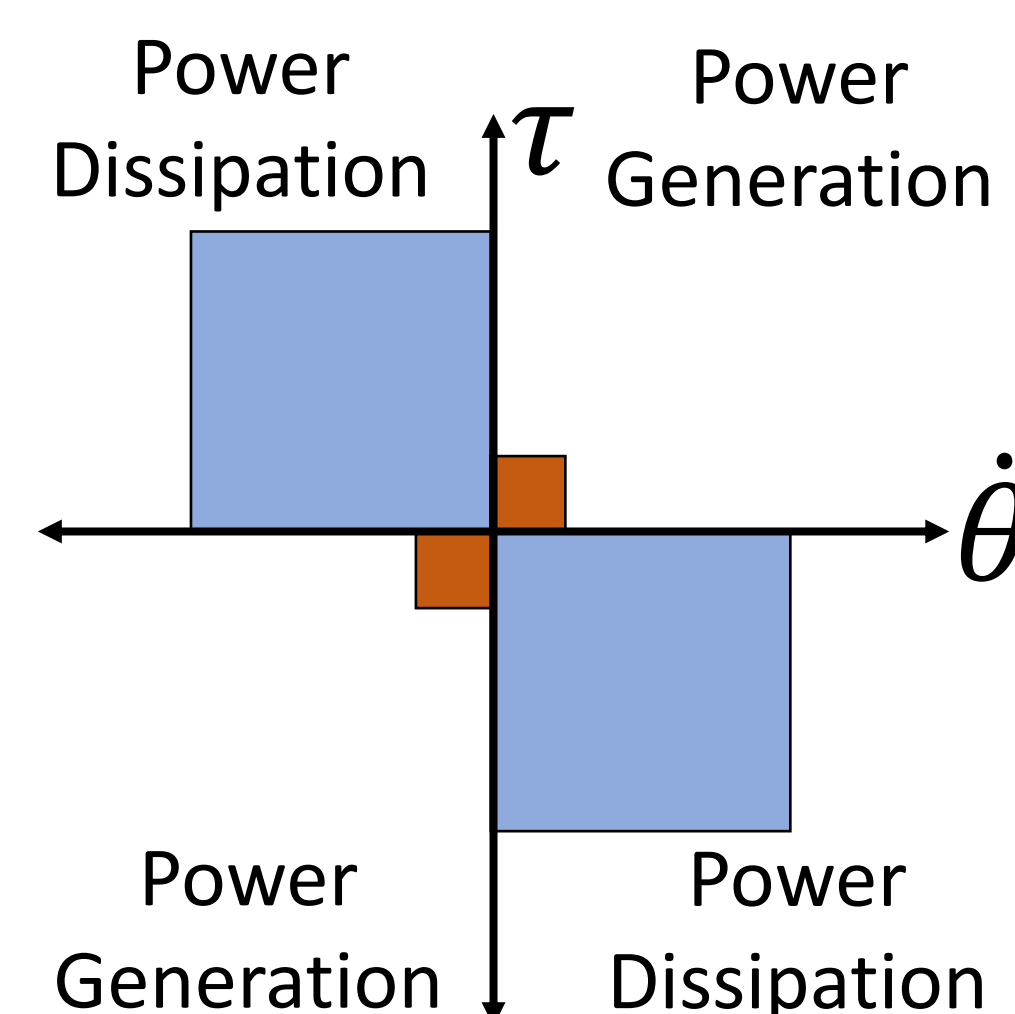
Mission and Philosophy

Synchro Motion is a spin-out from Vanderbilt University which is currently funded through the SBIR programs from NIH and NSF to commercially harden and validate two prosthetic devices, an ankle and knee. To date, Synchro Motion has begun testing these devices with patients in a research setting. Preliminary results with the ankle device on sloped terrain can be seen in the bottom right panel.

We are interested in seeing academic projects grow into successful products. We believe there is a need for R&D companies to partner with academic institutions to facilitate commercial translation of promising laboratory research

Actuator Technology

Constant-volume power asymmetric hydraulic cylinder

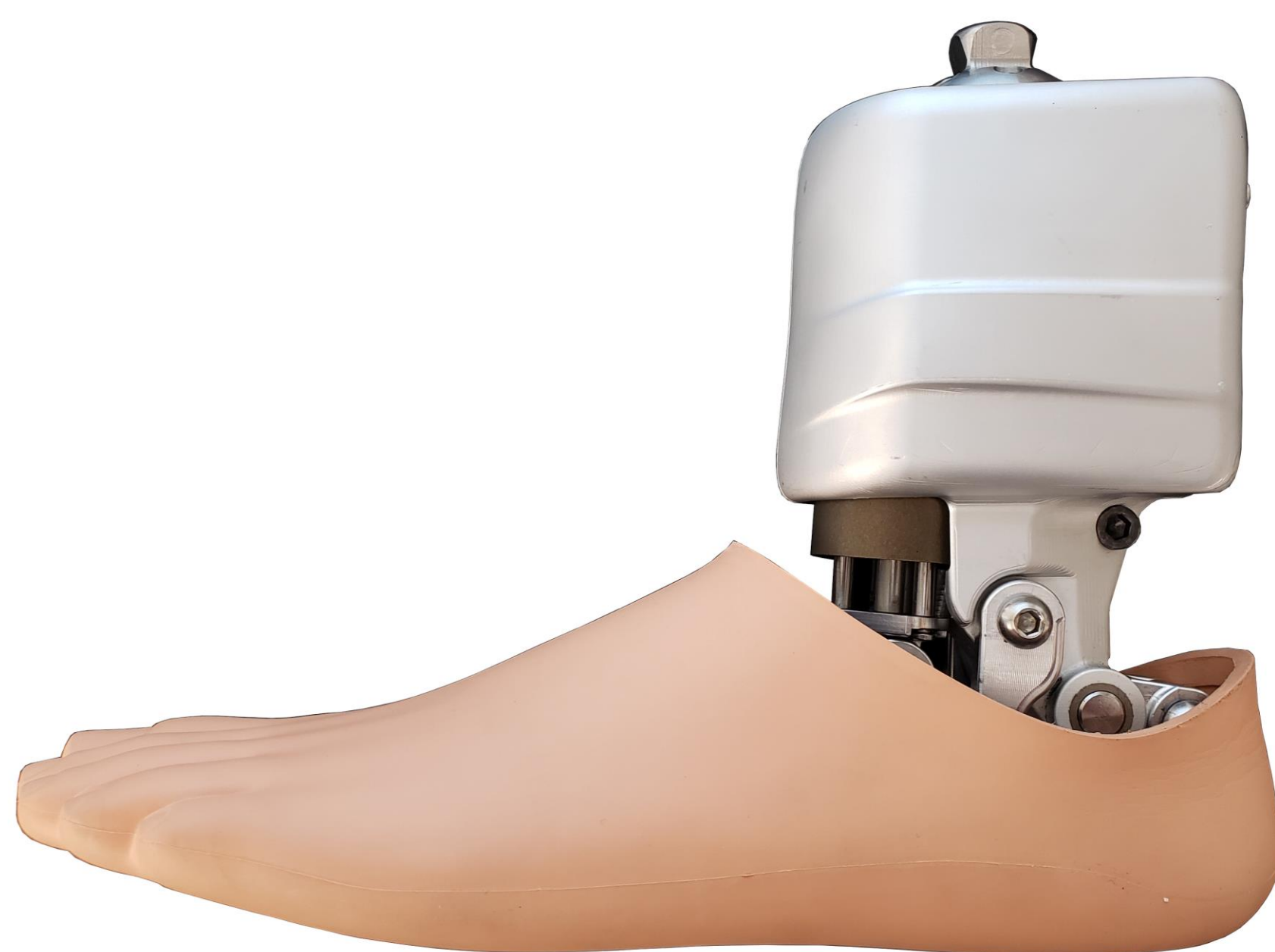


Prosthetic Hardware



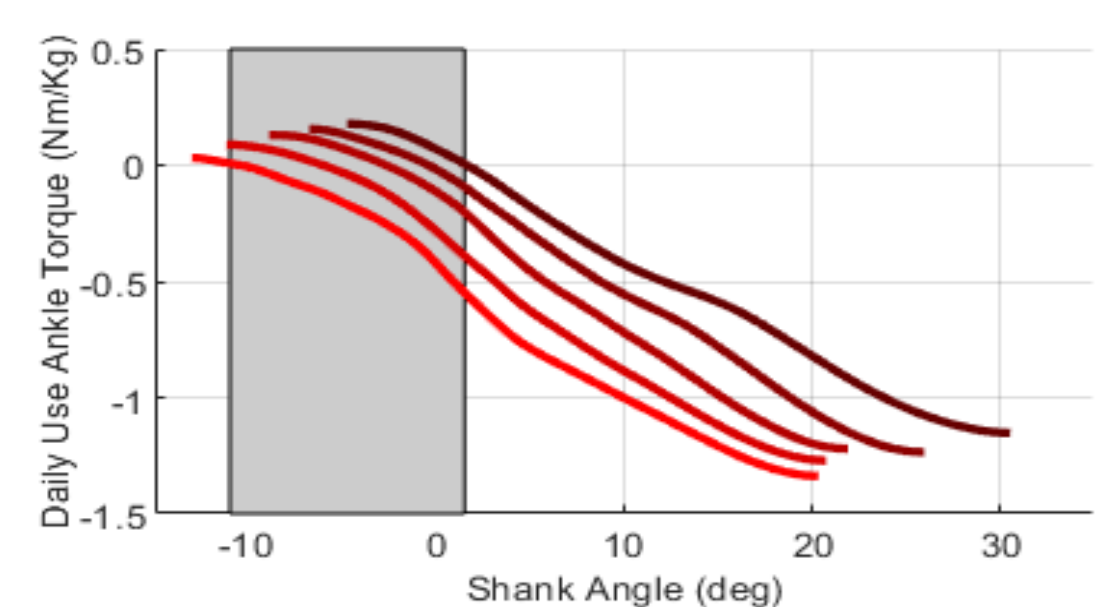
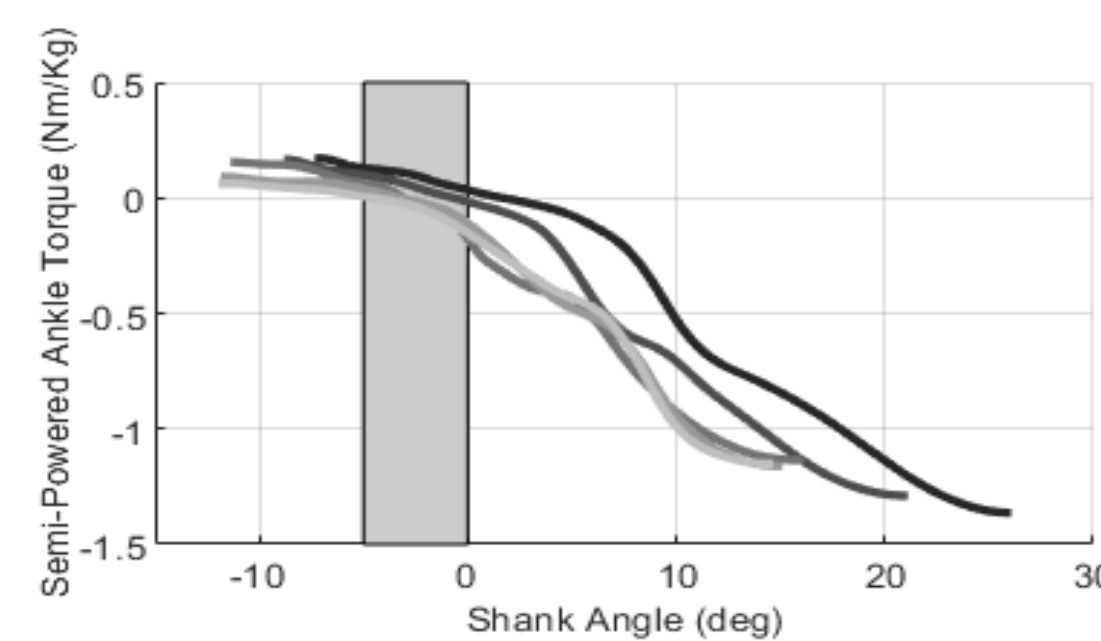
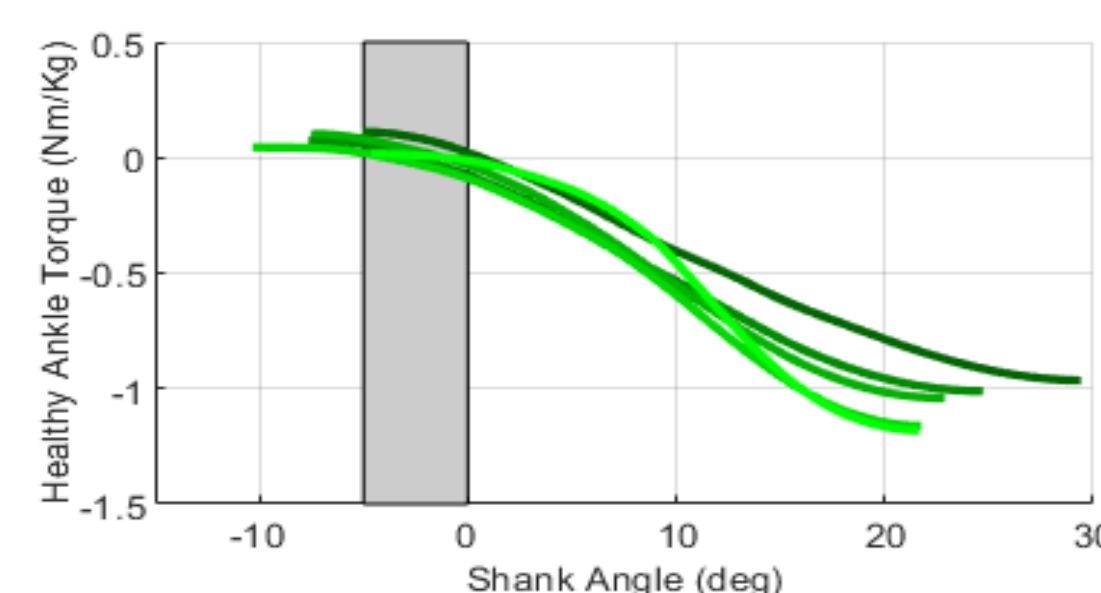
Prosthetic Knee (1.6 Kg)

Prosthetic Ankle (1.35 Kg)



Ankle Sloped Walking Data

External Quasi-stiffness



Foot Clearance Trajectory

