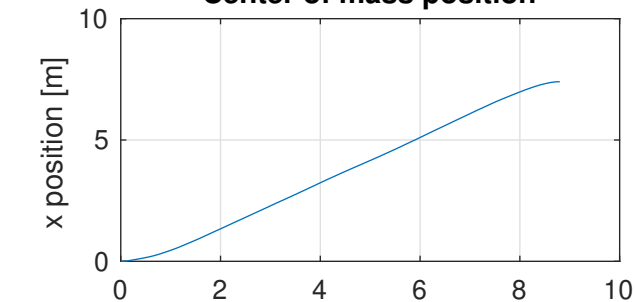
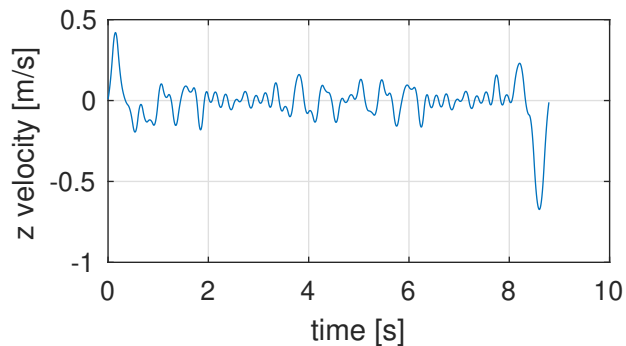
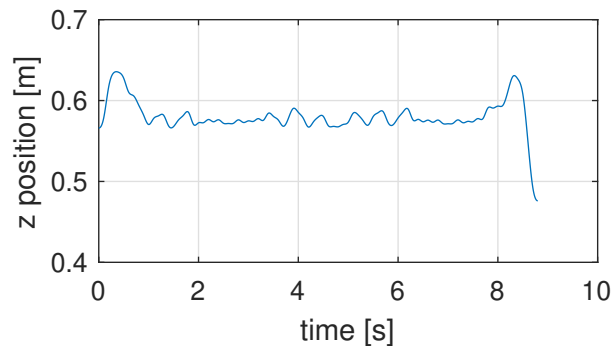
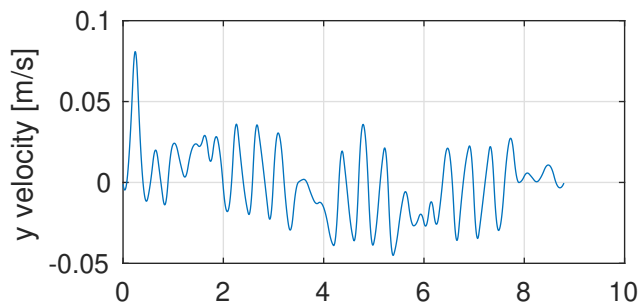
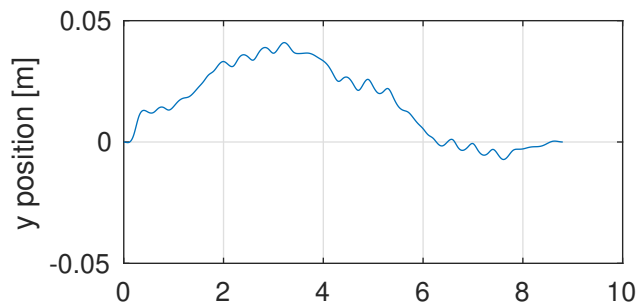
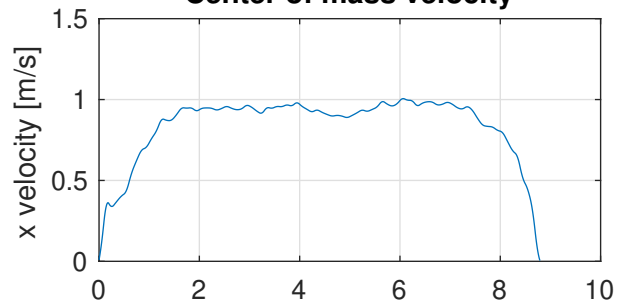


Results of vitruvio simulation for universal trot

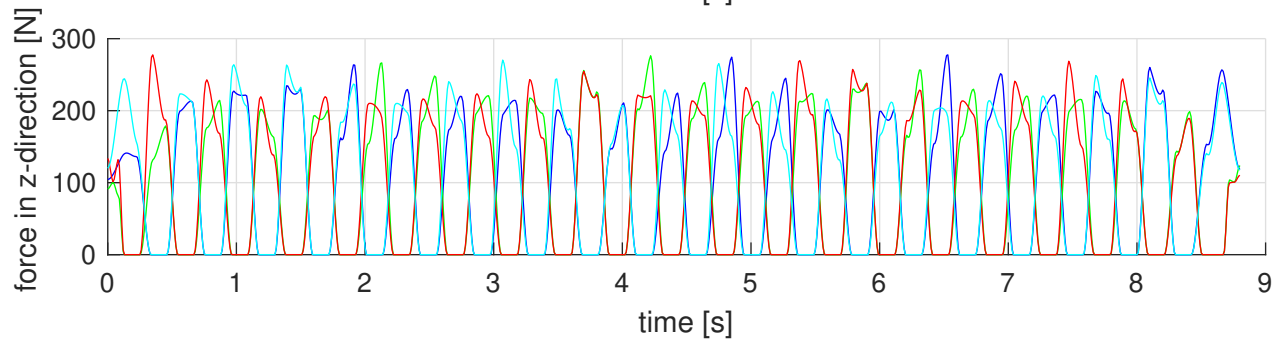
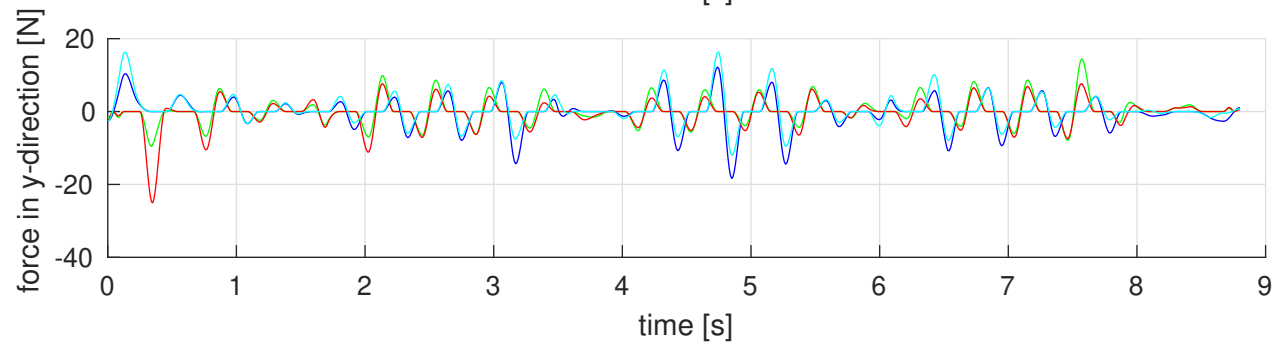
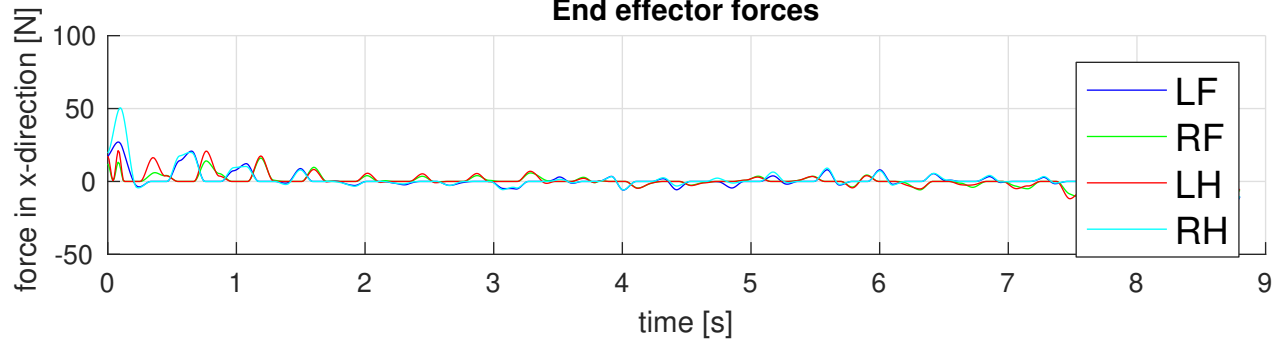
**Center of mass position**



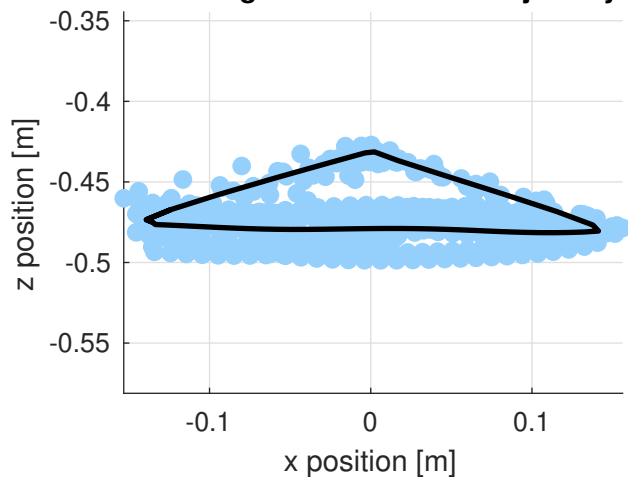
**Center of mass velocity**



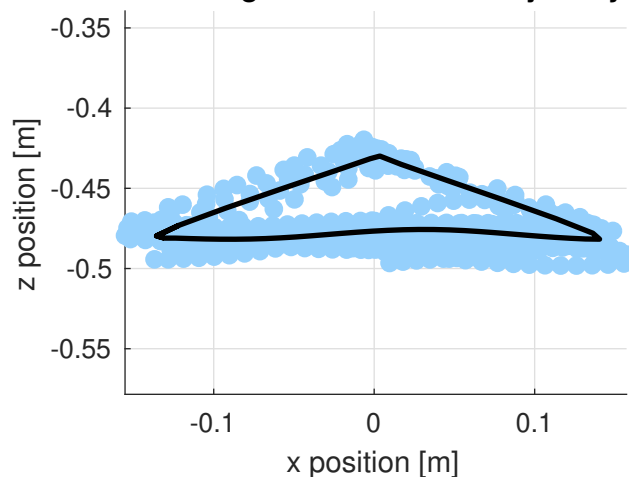
# End effector forces



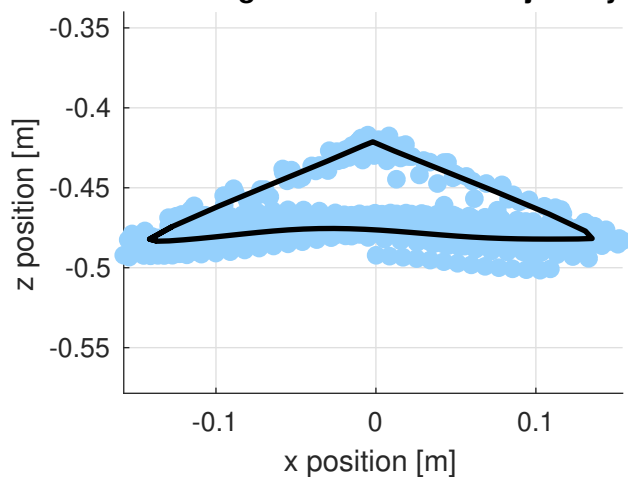
**Resulting LF end effector trajectory**



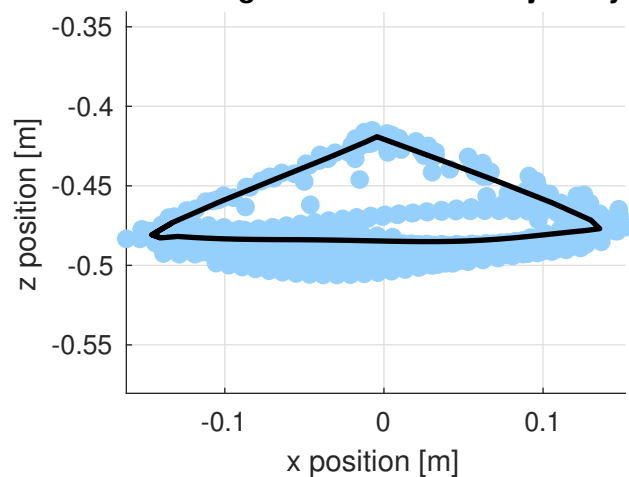
**Resulting RF end effector trajectory**



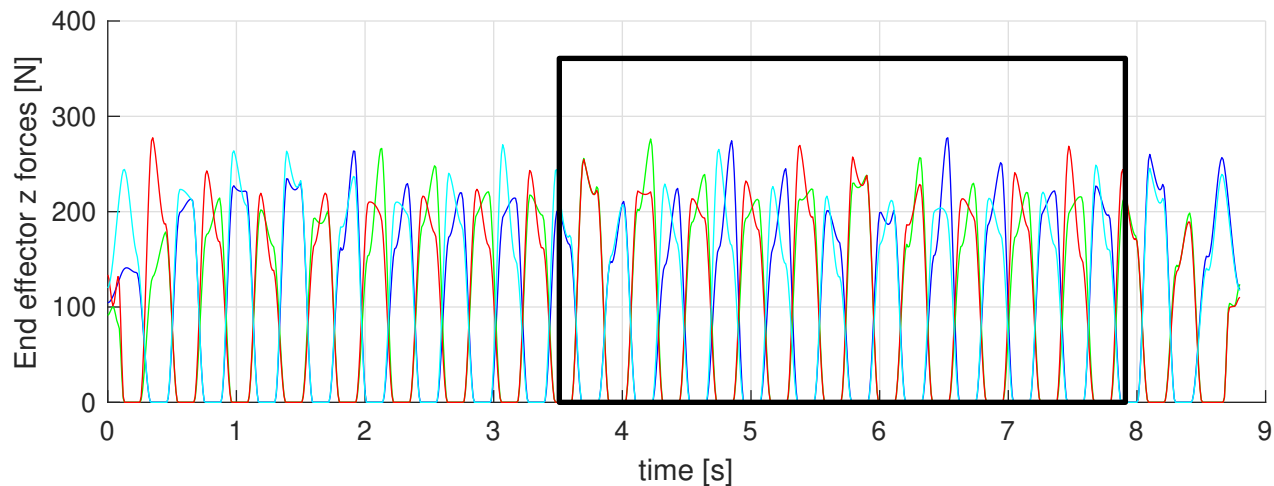
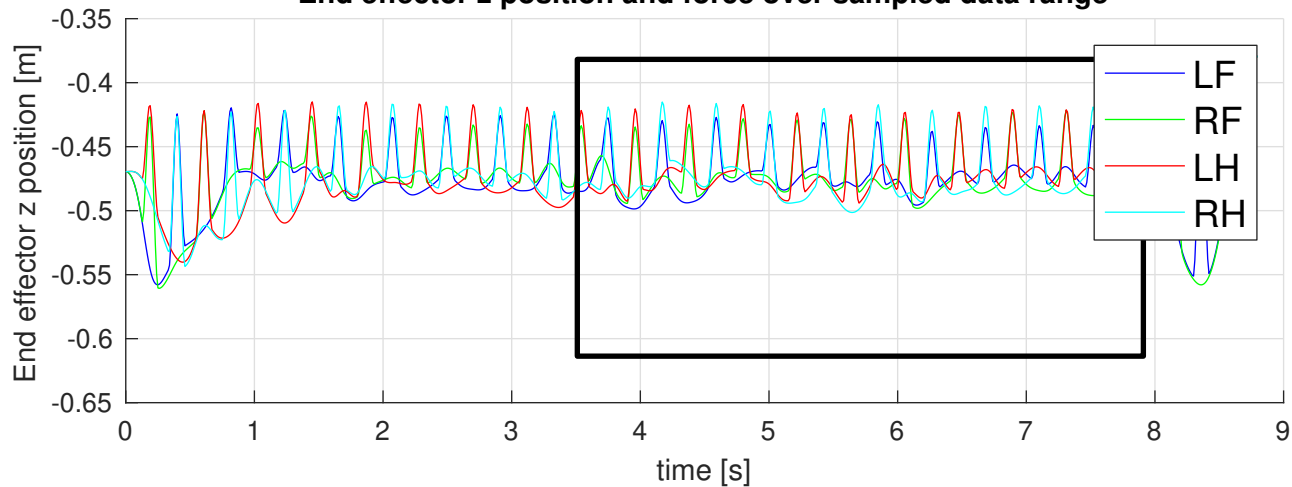
**Resulting LH end effector trajectory**



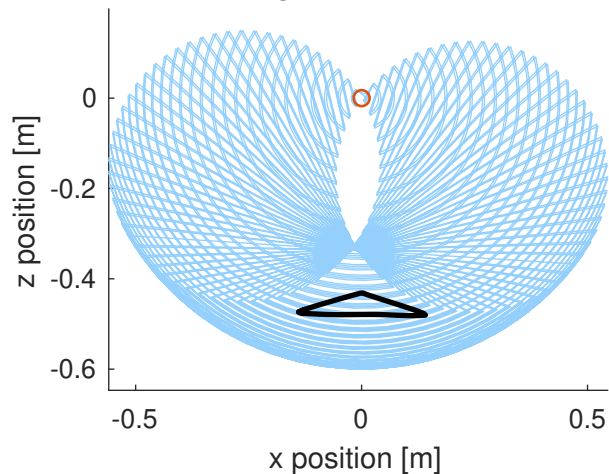
**Resulting RH end effector trajectory**



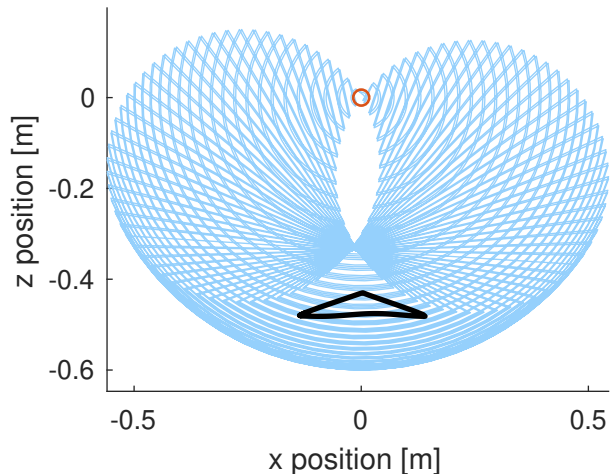
**End effector z position and force over sampled data range**



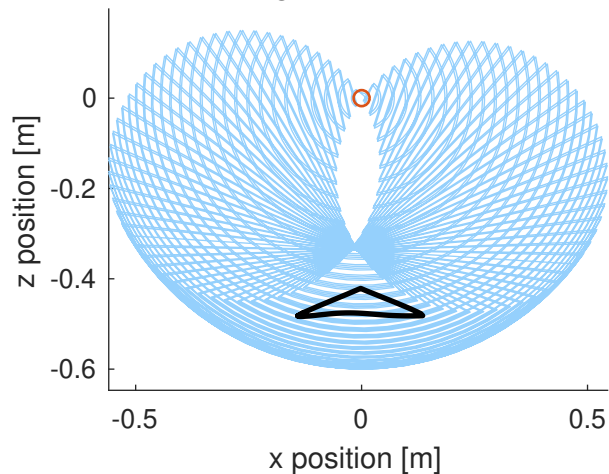
**Range of motion LF**



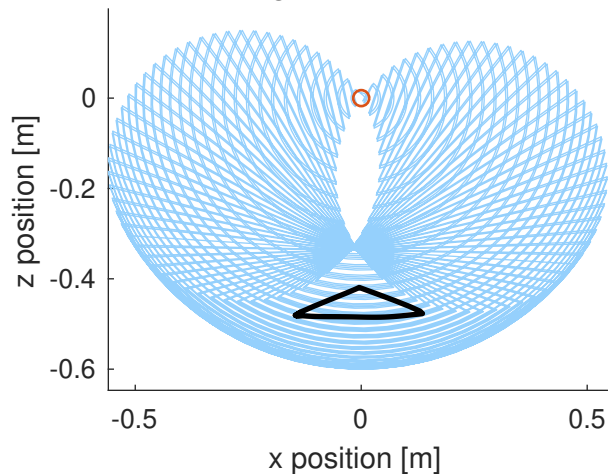
**Range of motion RF**

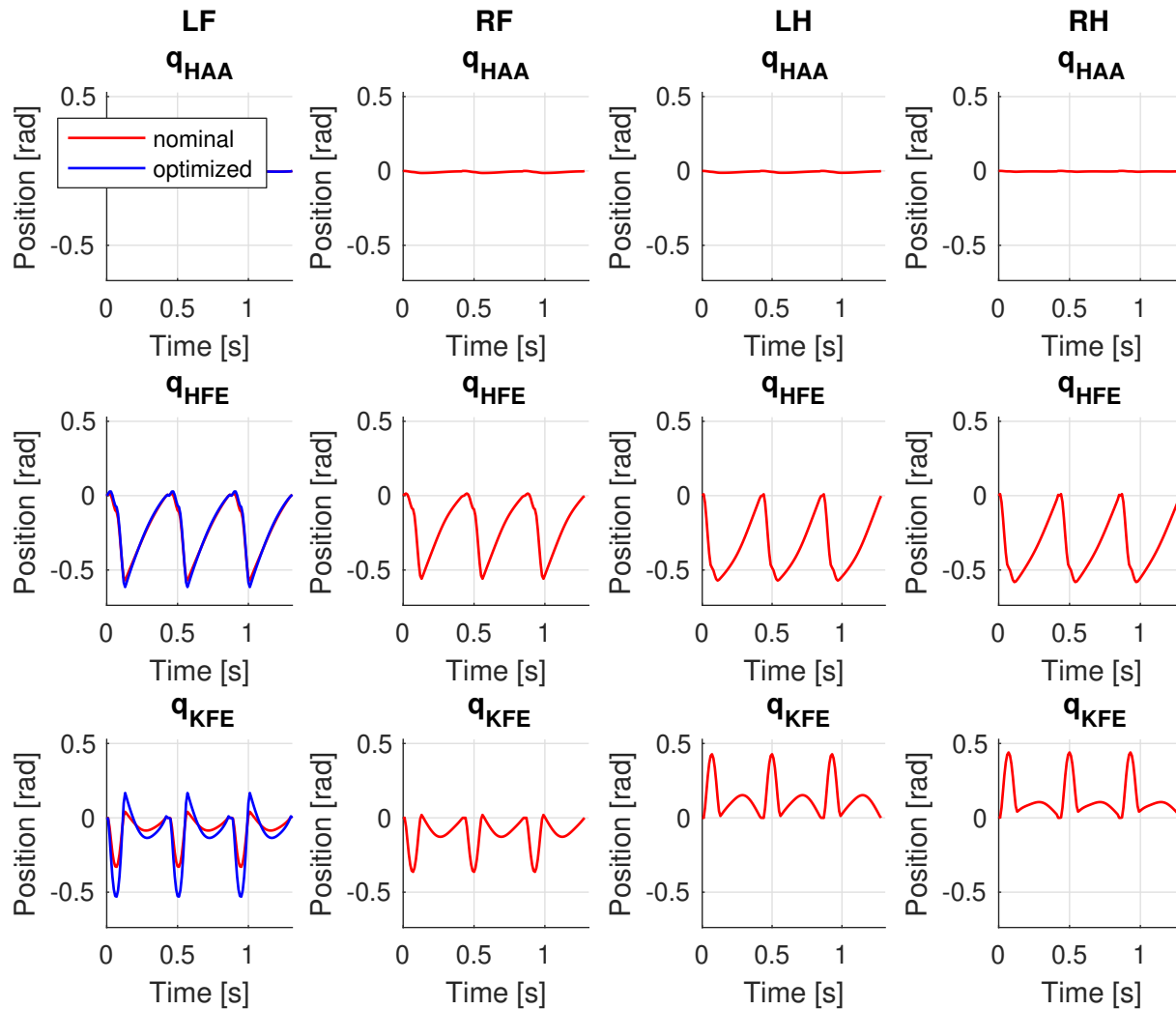


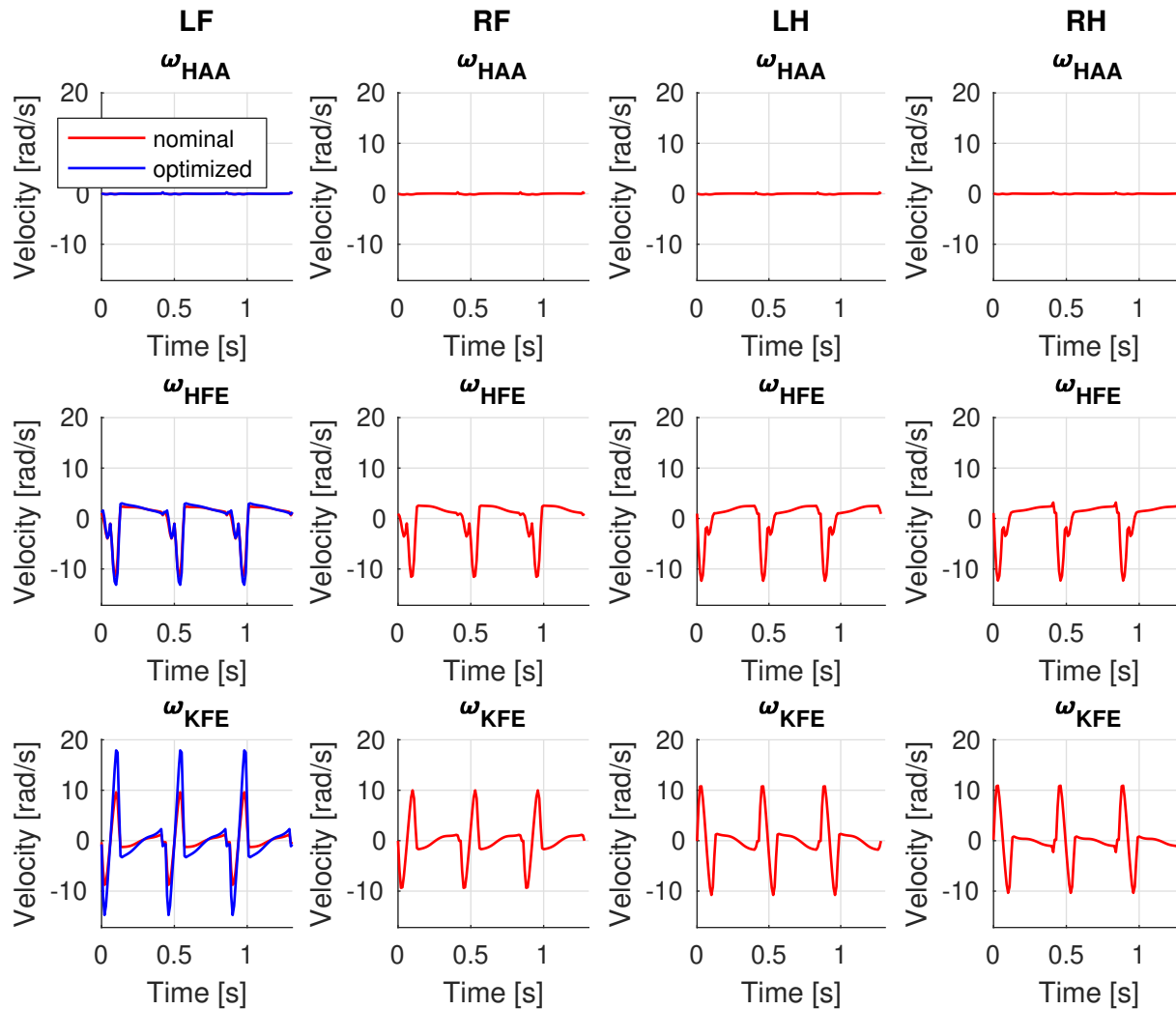
**Range of motion LH**



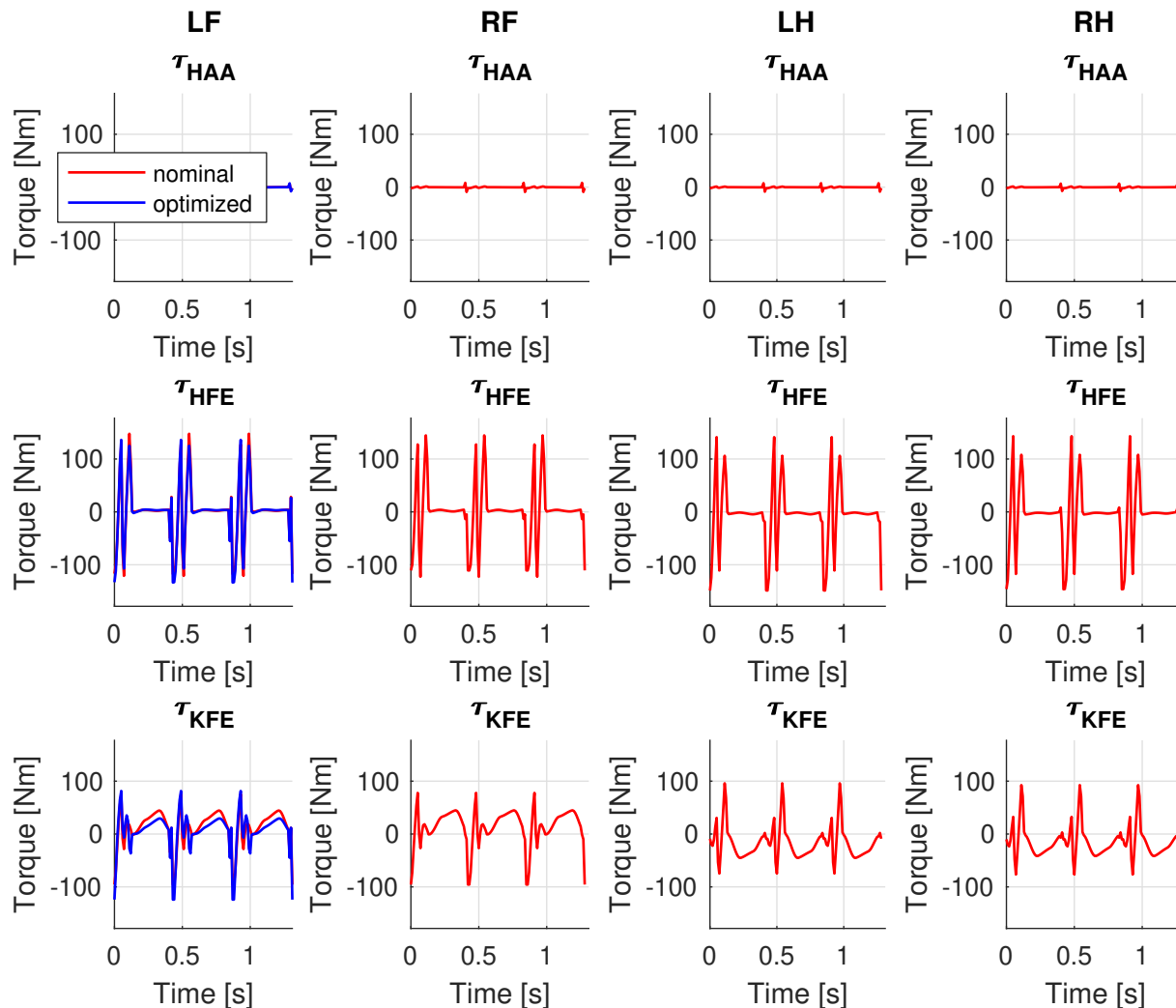
**Range of motion RH**

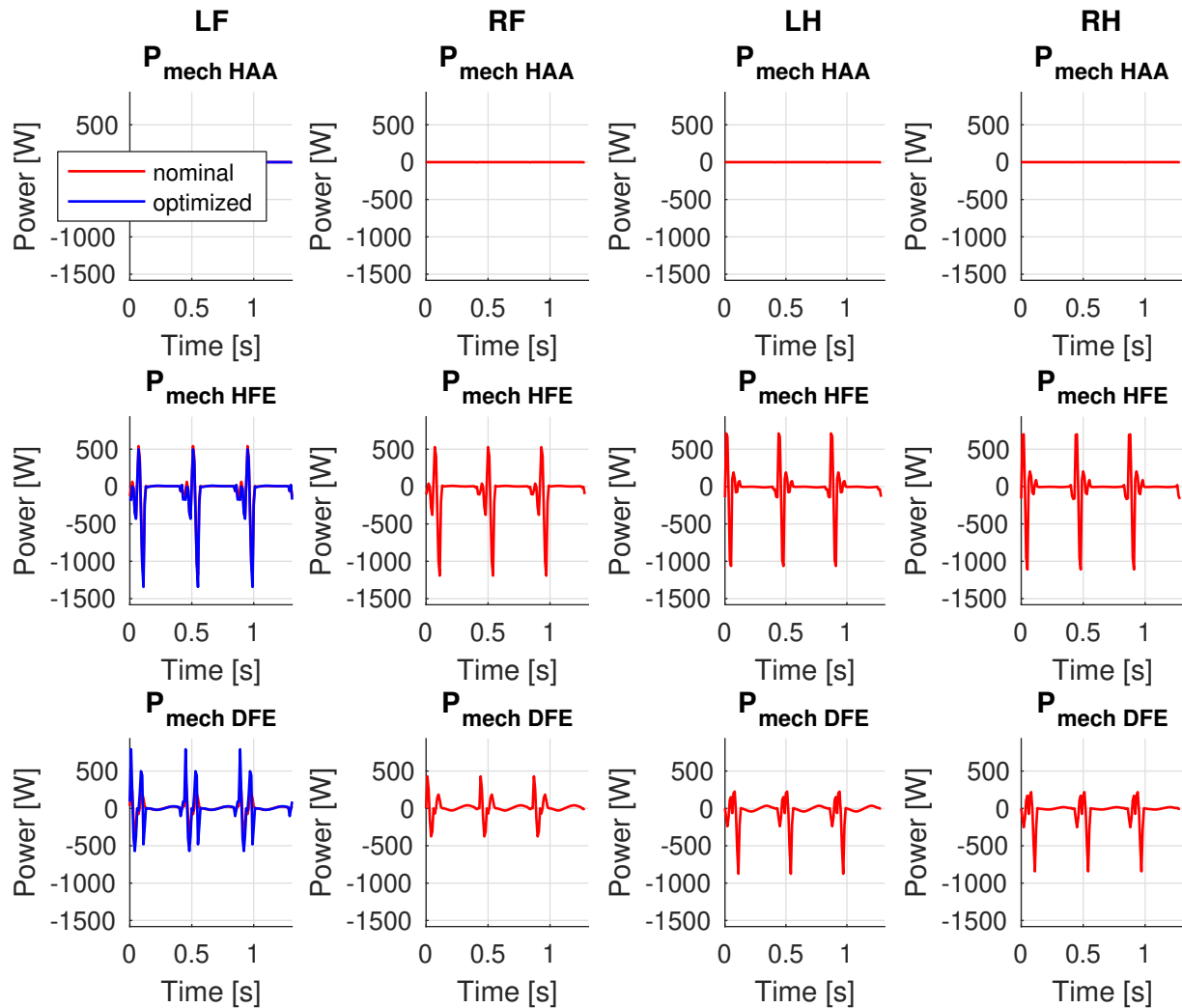


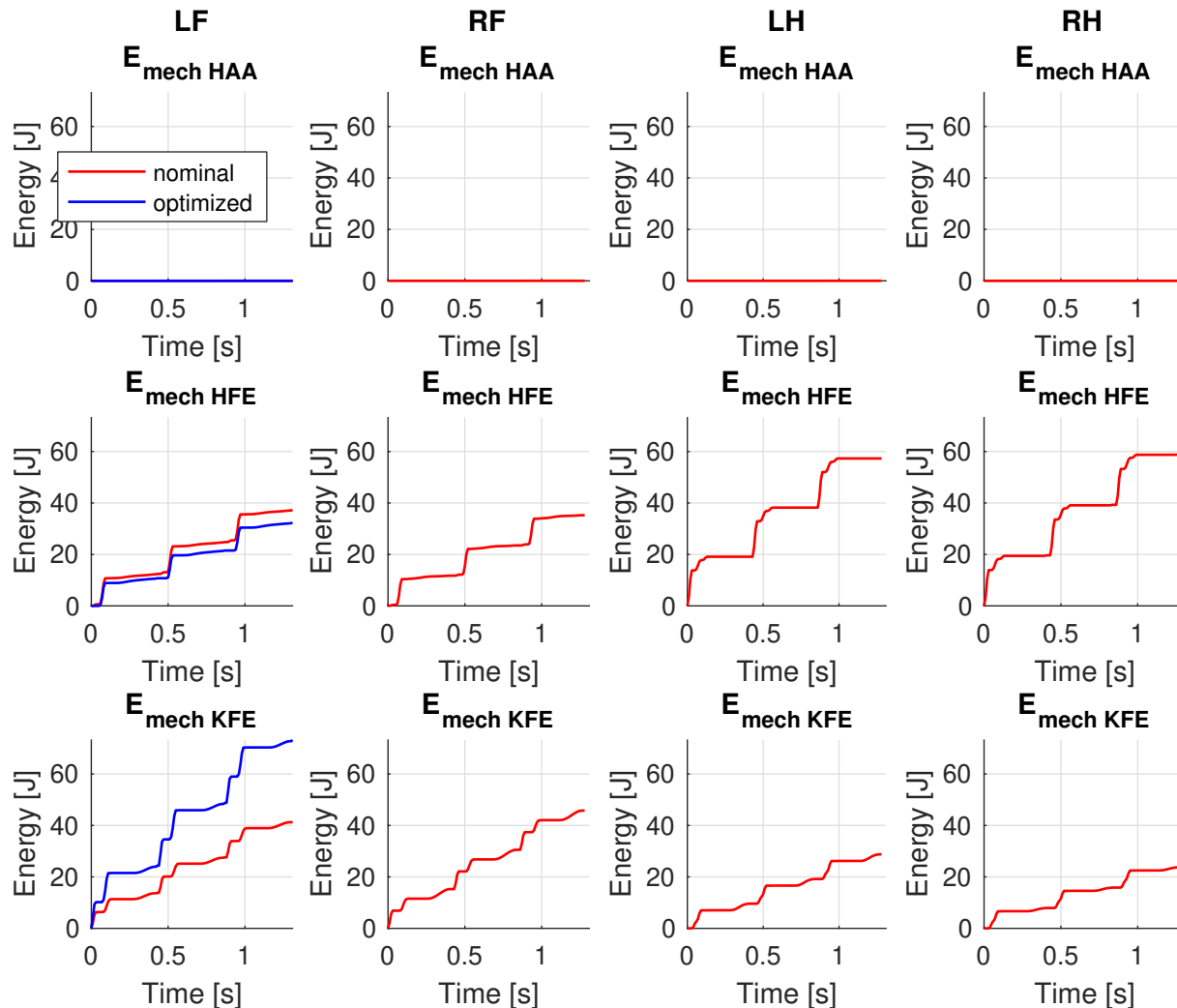




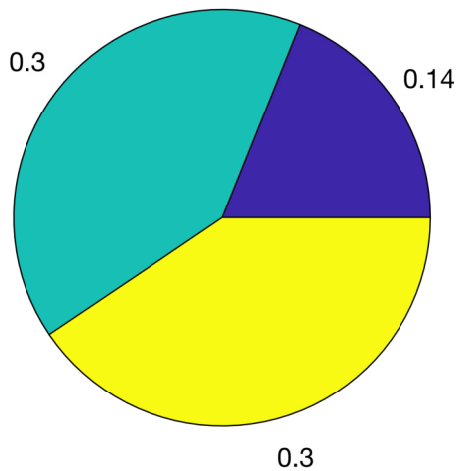




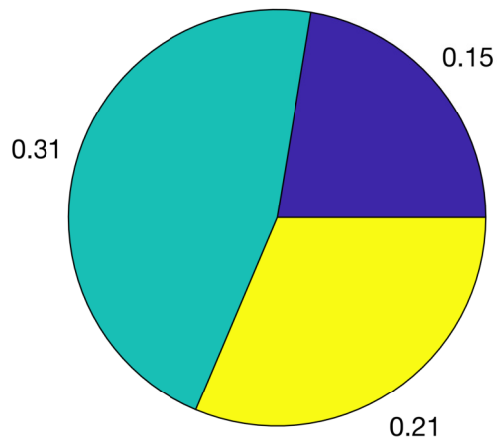




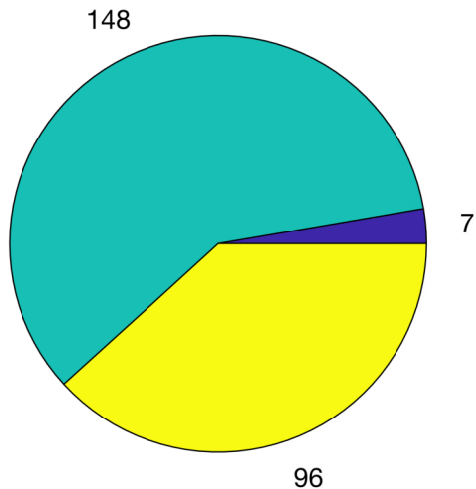
Link lengths [m]  
Nominal LF



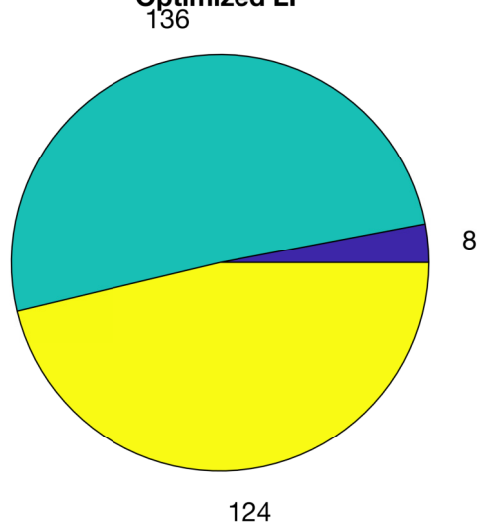
Link lengths [m]  
Optimized LF



Peak joint torques [Nm]  
Nominal LF

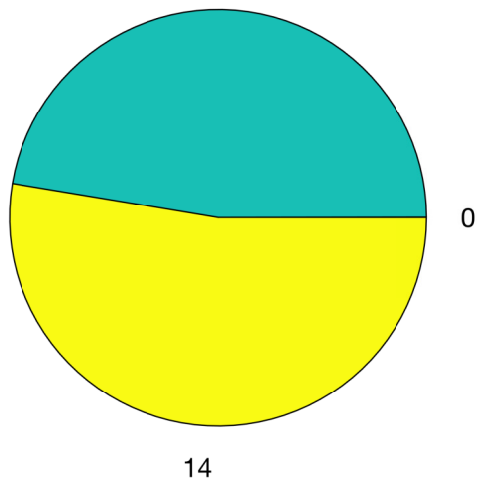


Peak joint torques [Nm]  
Optimized LF



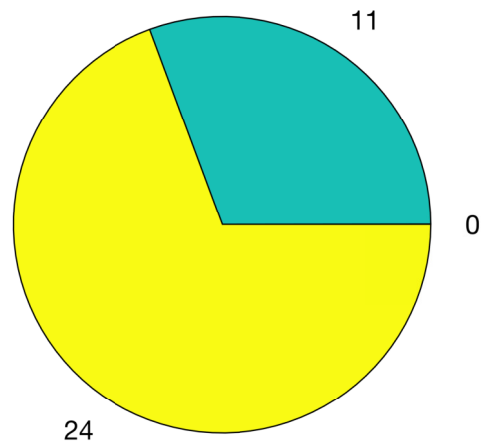
Mechanical energy [J/cycle]

Nominal LF

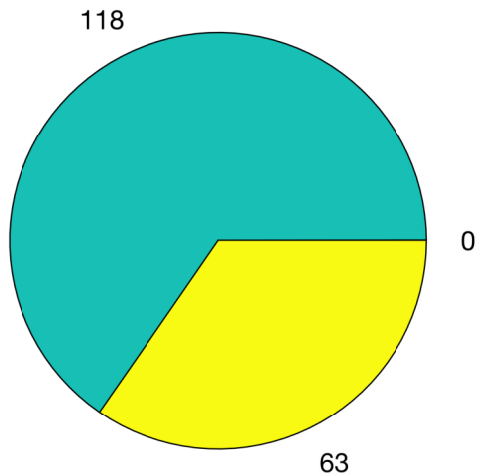


Mechanical energy [J/cycle]

Optimized LF



**Electrical energy [J/cycle]**  
**Nominal LF**



**Electrical energy [J/cycle]**  
**Optimized LF**

