This is a biped robot that I build after being inspired by the Sony dream robot. I also build a simulator for it that I can check different gait functions (walking functions). Right now it only dose static walking but I am working on dynamic walking. It uses the mini robomind 25 MHZ MC68332 cpu and Hitec servos. I entered 2001 rssc Talent Show and got third place.

{youtube}FgXuWw_cqeU{/youtube}

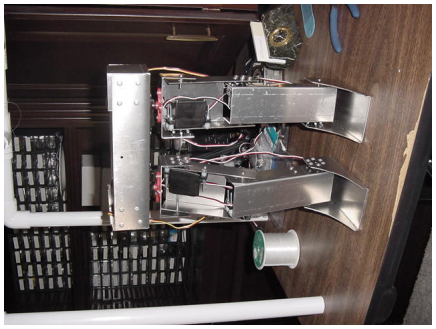
{youtube}JdyhhLW77bc{/youtube}

{youtube}iRdDKi9nxUA{/youtube}

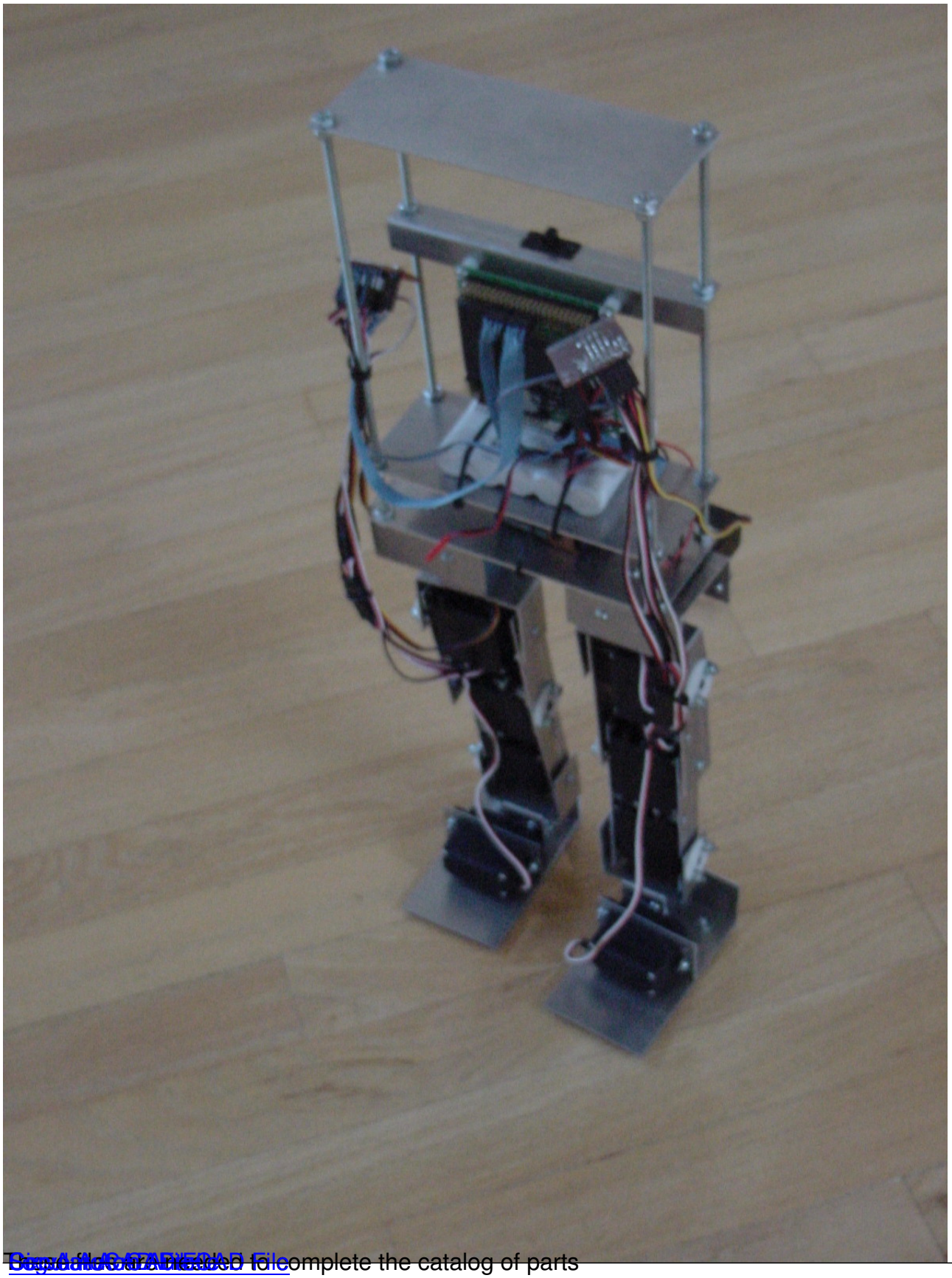
{gallery}Robots/Pinocchio{/gallery}

This is the first version of the robot. It never moved because the servo did not have sufficient power, so I had to rebuild it. However, this page shows how the metal was being cut and shaped. I used AutoCAD mechanical desktop with dynamic designer 2000 to design and simulate the biped.

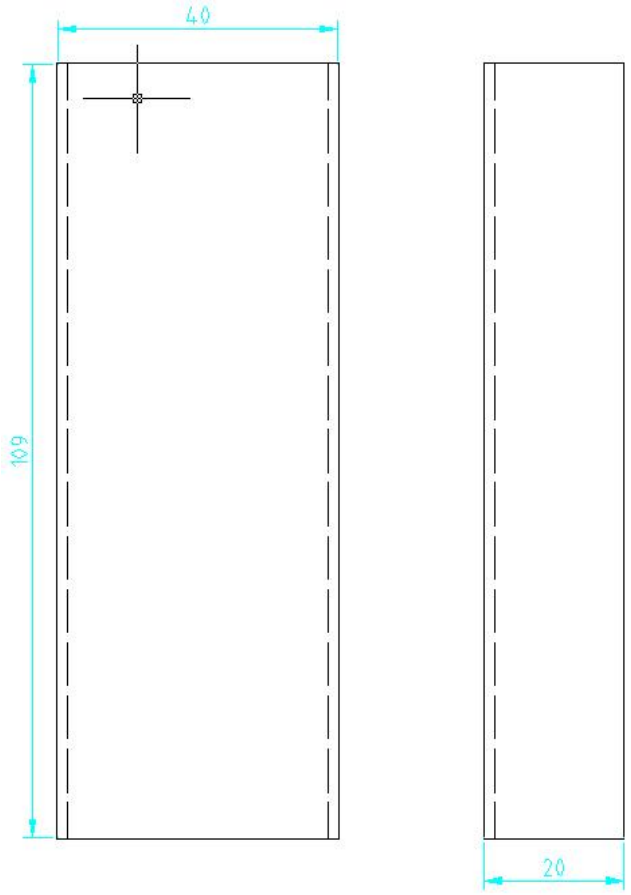
AutoCAD File

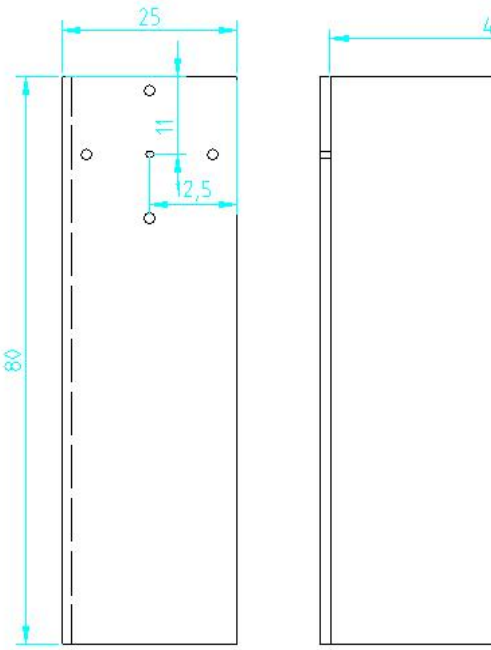


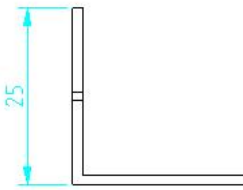
This version was a sucess



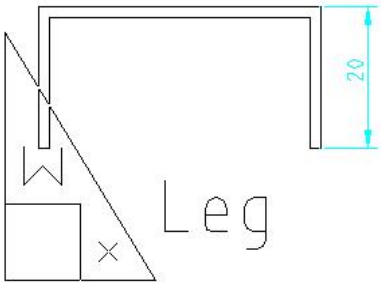
Top Assembly SolidWorks 2010 File complete the catalog of parts

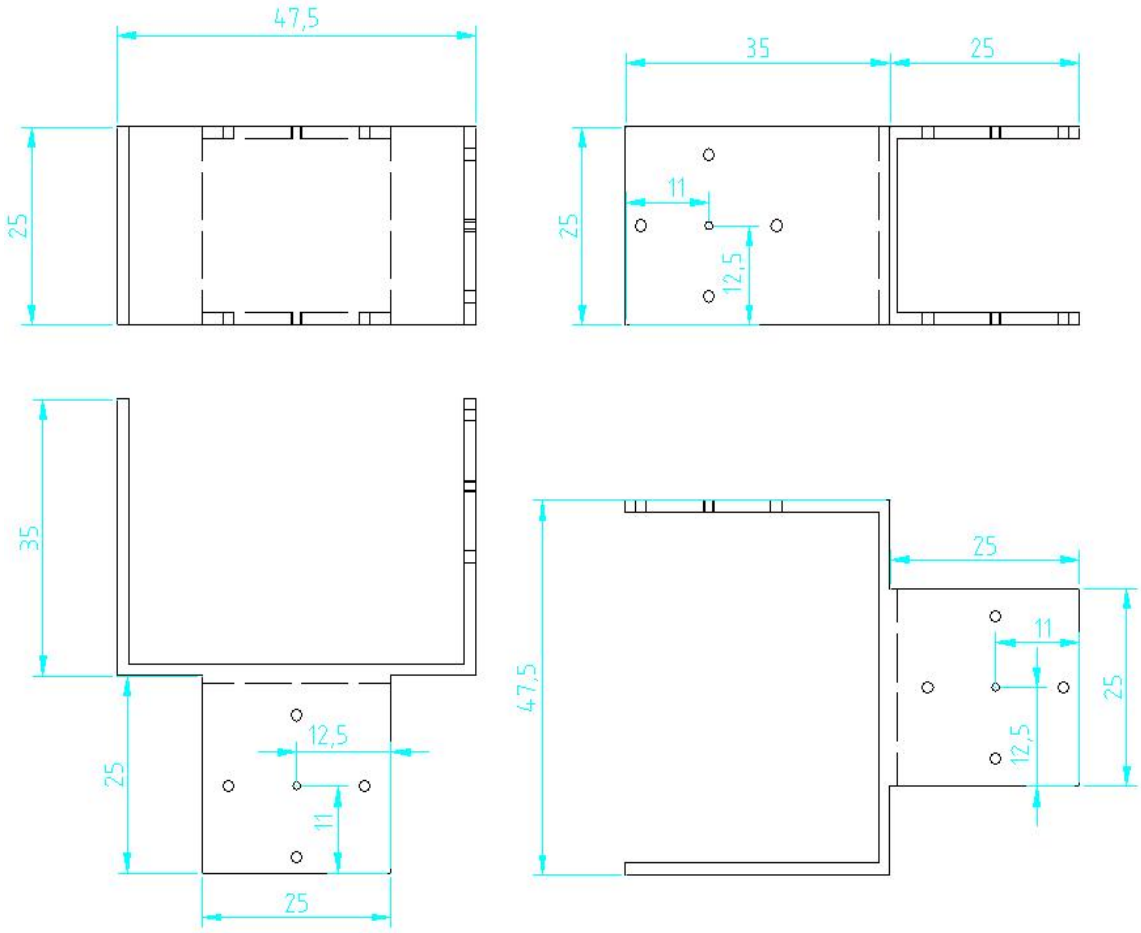


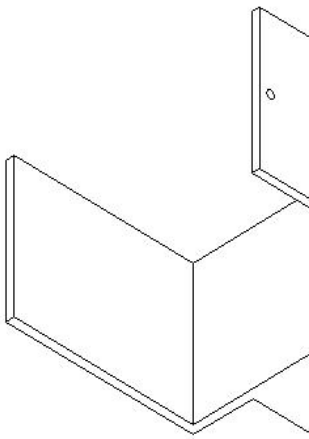


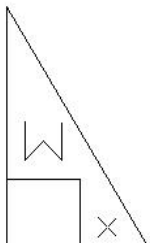


Hip

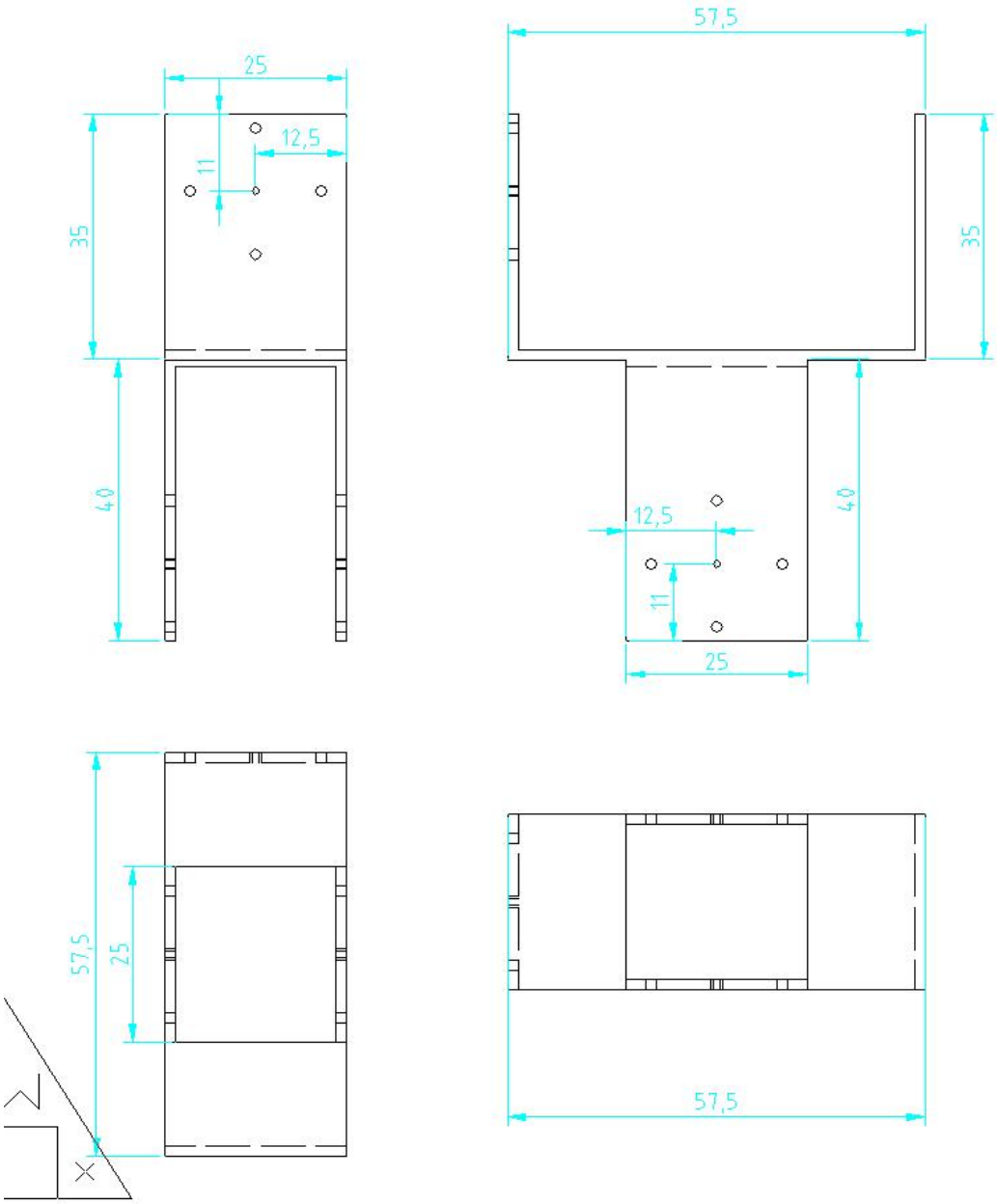


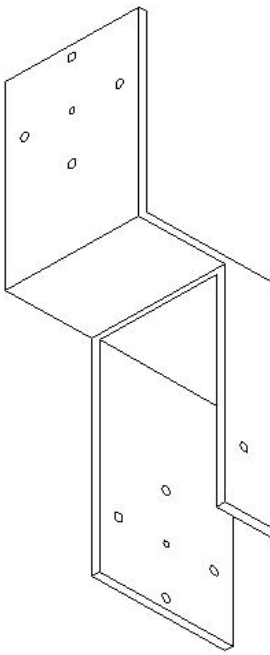




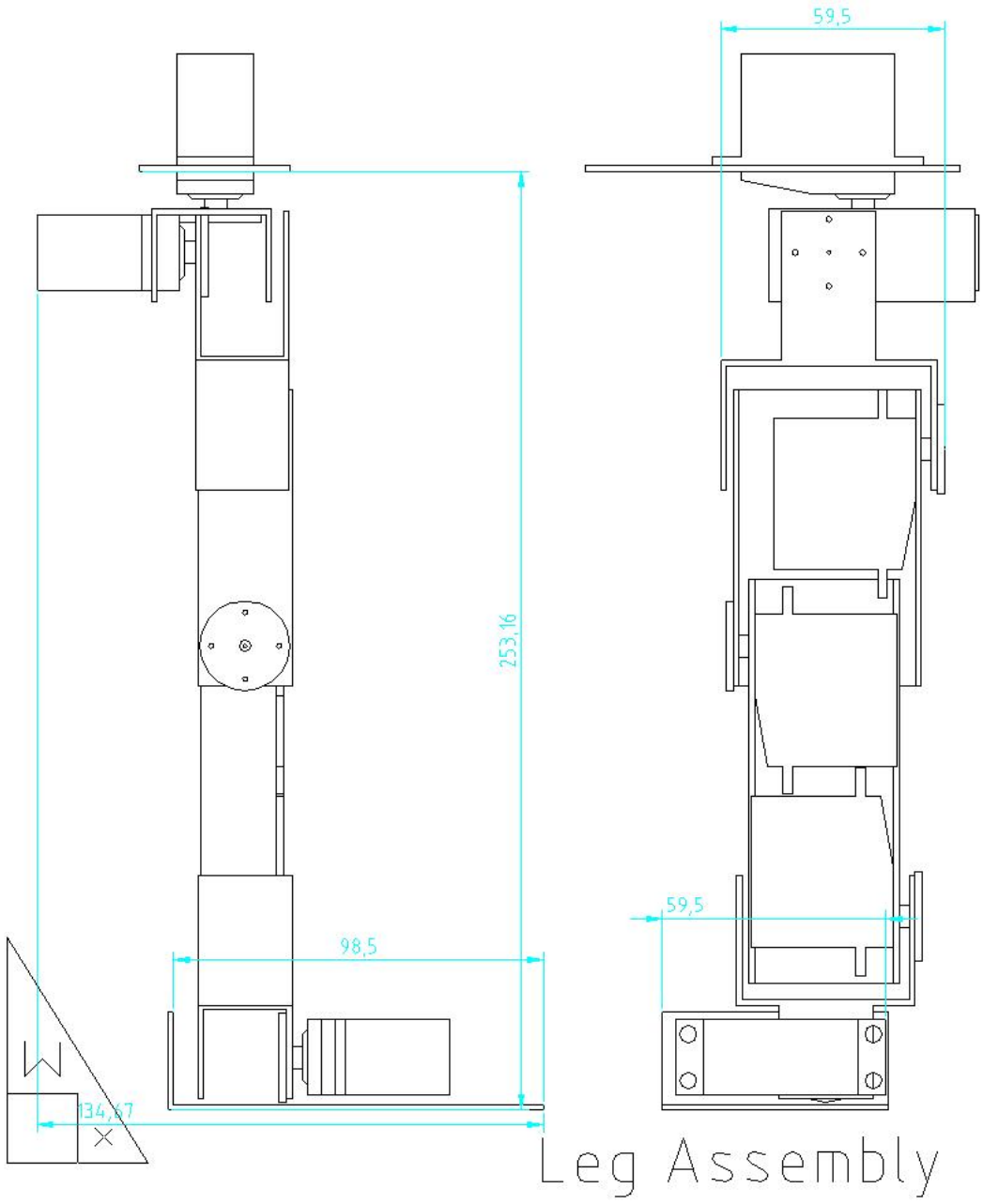


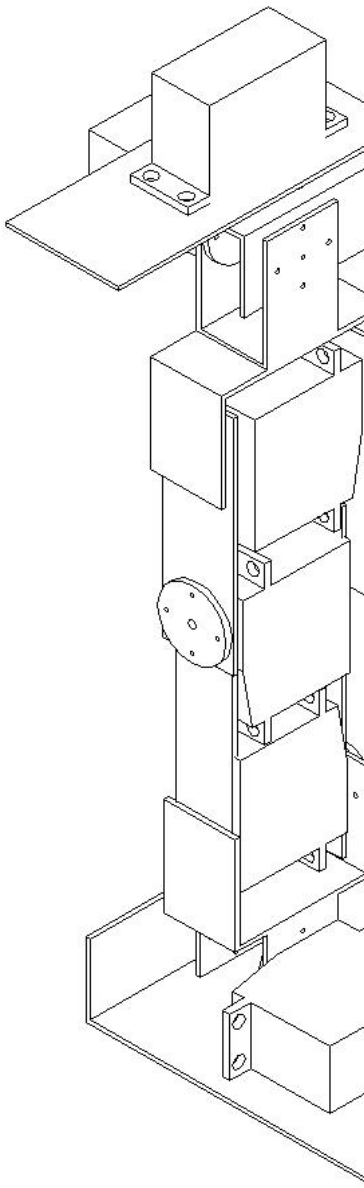
Ankle Joint

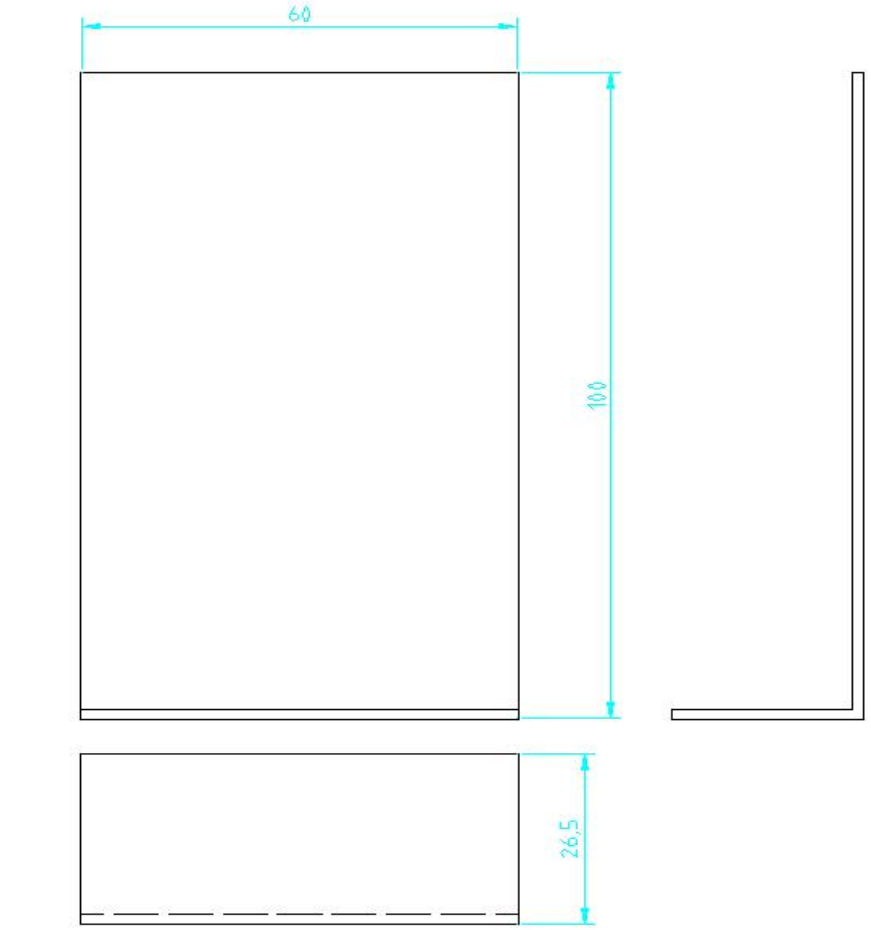




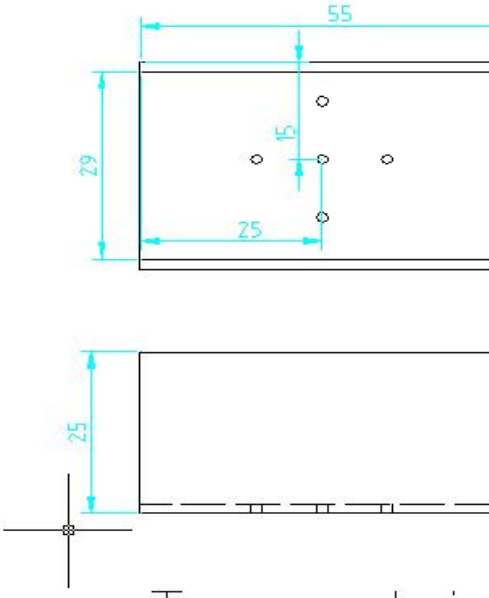
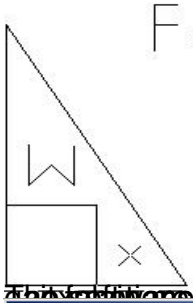
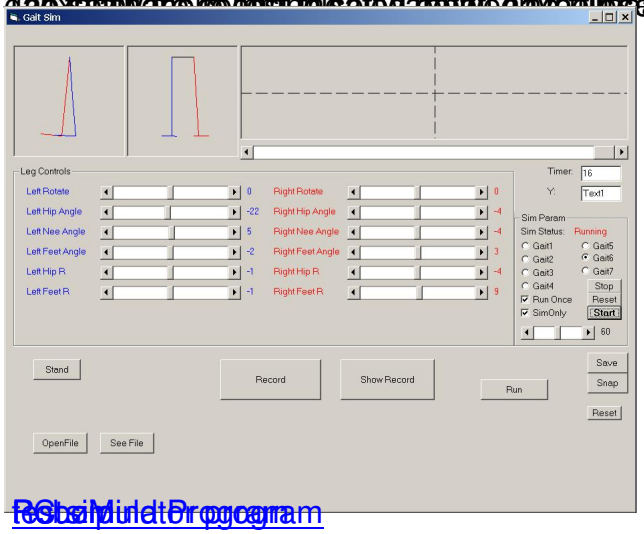
Turso


59,5
253,16
98,5
59,5
134,67
Leg Assembly





Foot



Turso Joi