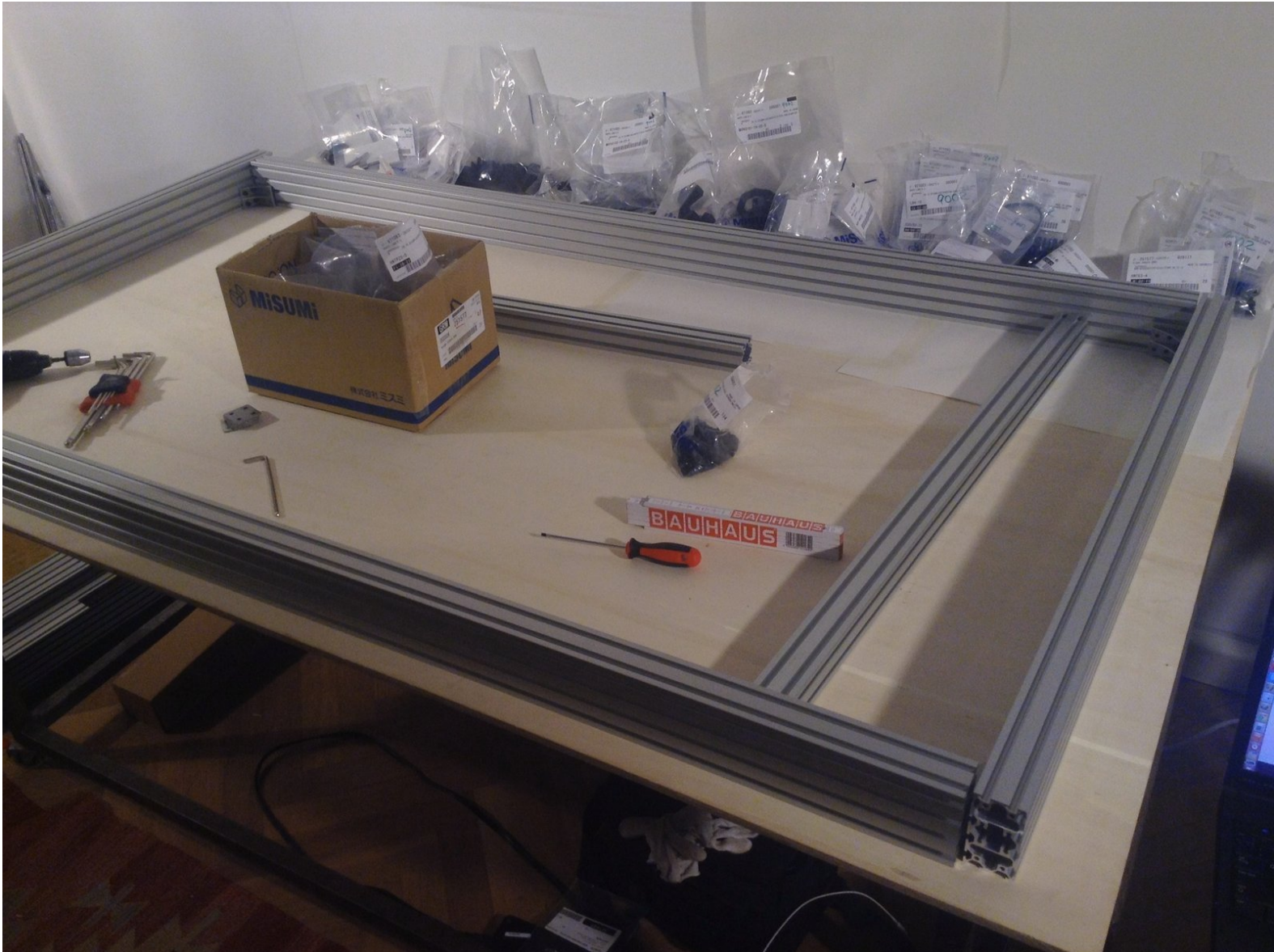


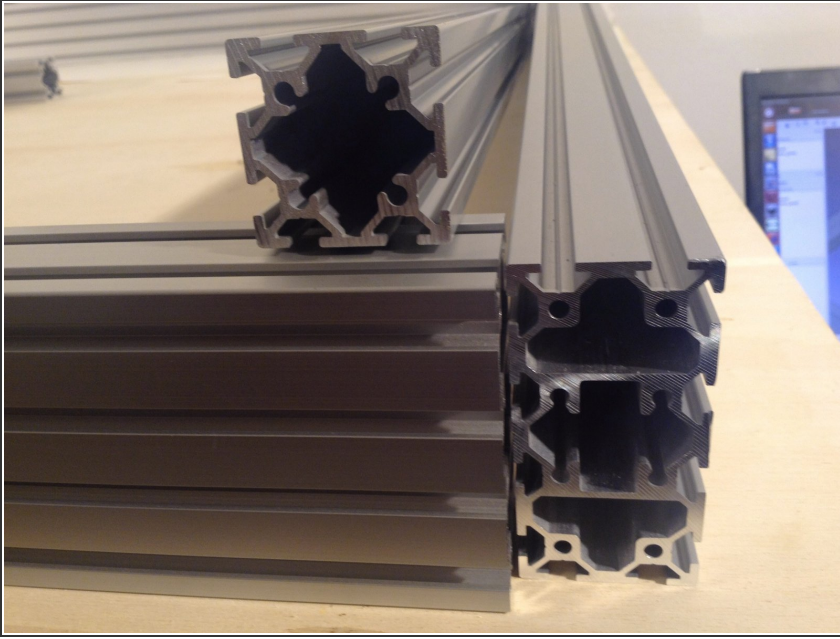


How to build the OSE Lasersaur Frame Gantry

Written By: Robert Kirk

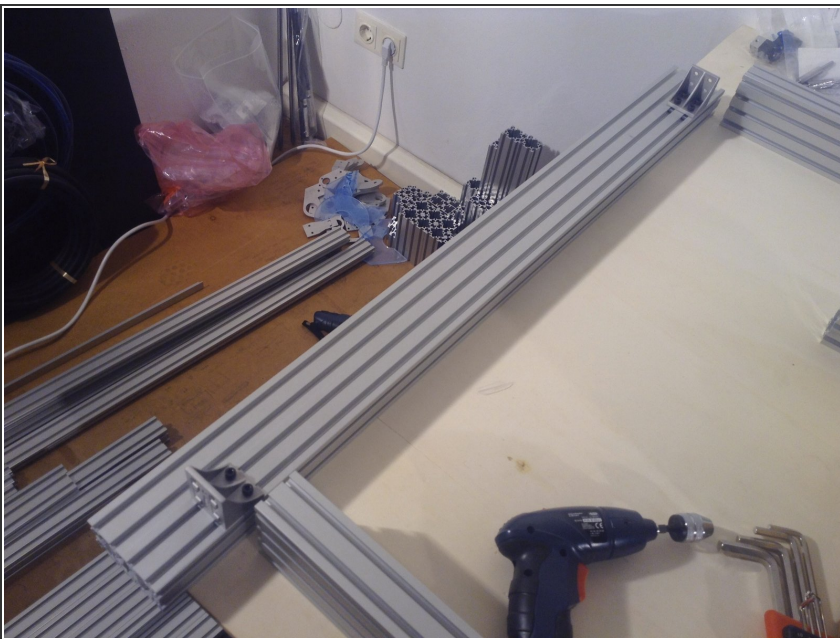


Step 1 — How to build the OSE Lasersaur Frame Gantry



- Take the 4x8 cm extrusions and 4x4 extrusions and make a box.
- Take a FreeCAD image snapshot [here](#) and throughout.

Step 2



- Start by taking the 4080 extrusions - the short sides - and mounting the corner brackets to them.

Step 3



- Take a corner bracket. Use the corner bracket with the ridge in the middle.

Step 4



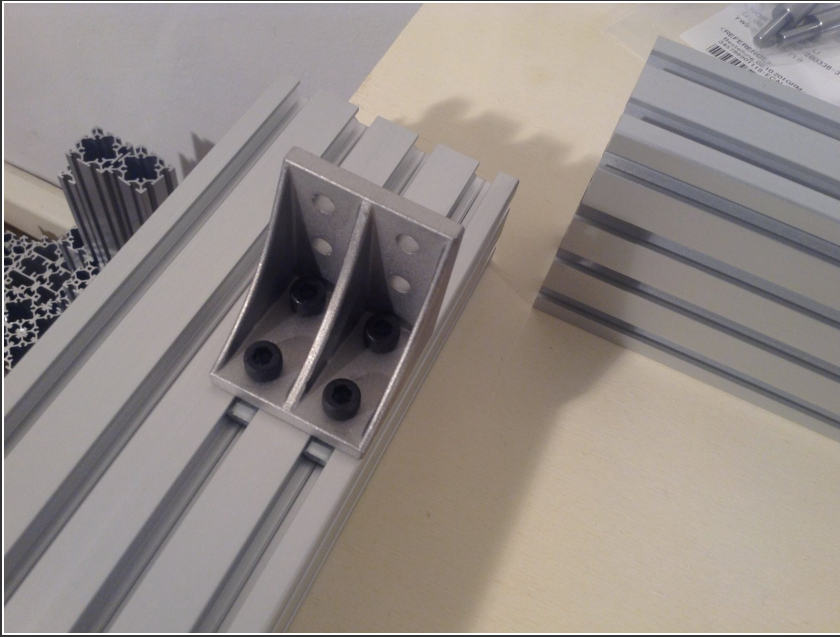
- Put in 4 spring nuts. Note that these may be inserted from the top of the rail, not necessarily from the side. Use 4 of these per corner bracket.

Step 5



- Detail of spring nut. it has a sprung ball on the back side.

Step 6



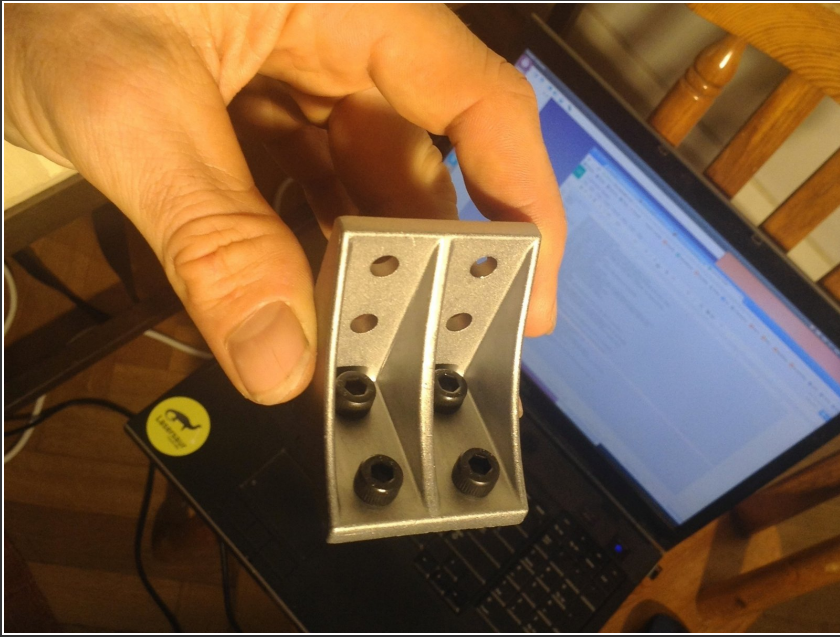
- Mount the first bracket on a corner. Put the short side of the bracket on the short frame side, and the long side of the bracket on the long side. Do not tighten yet.

Step 7



- Insert the next 4 spring nuts. When inserting these, have the bolt holes near each other. Use a screwdriver to roll the spring nuts into the slot.

Step 8



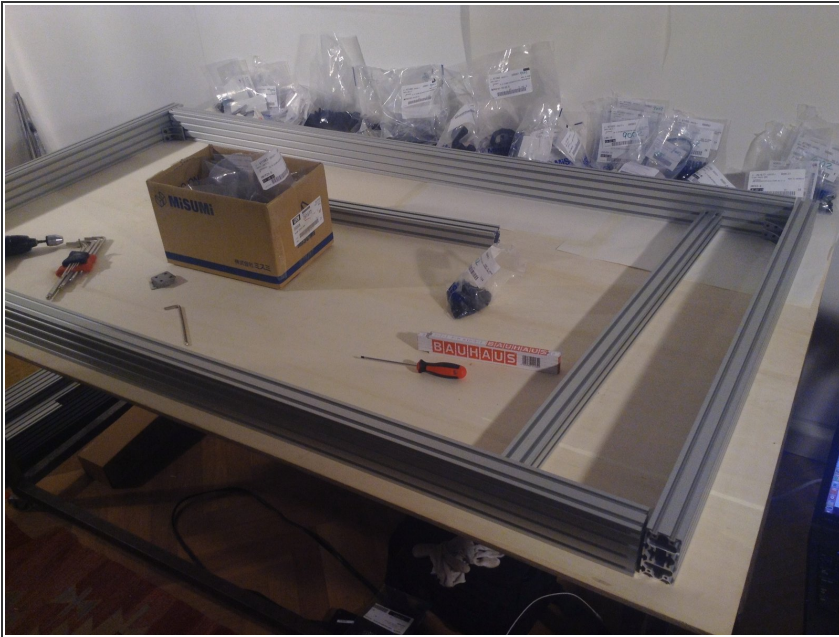
- To install the corner brackets, put in the 4 screws in first.

Step 9



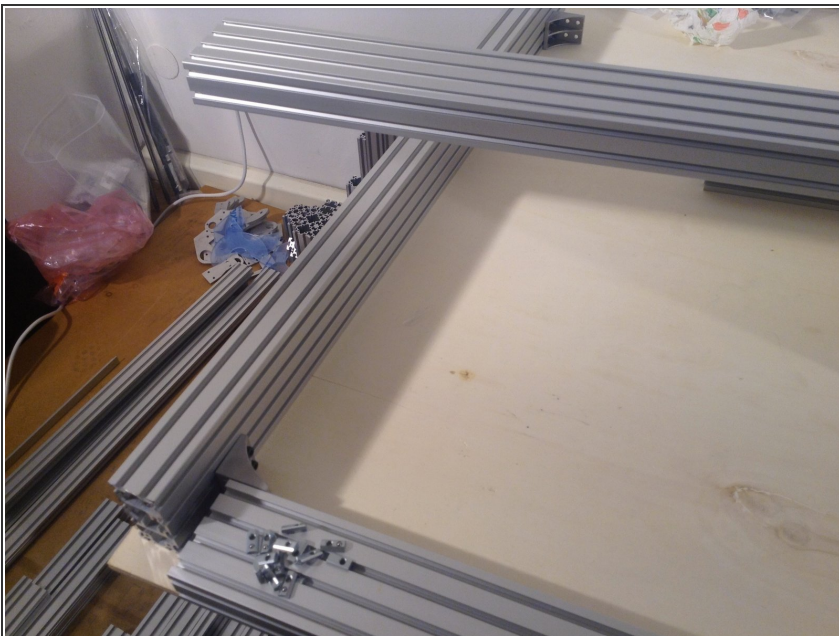
- Use the 10 mm long, 5 mm diameter screws here.

Step 10



- Do the second short side 4080 extrusion - use short side of bracket. Do not tighten yet. Then put the frame in a position to connect the 4 sides together at the corners. Adjust location of corner brackets as needed.

Step 11



- Insert the spring nuts on all corners, then bolt the 4 sides together.

Step 12



- With corners loosely in place, now fit the 4040 member next to the short edges of the frame. Do the same on the other side.

Step 13



- Put 4 spring nuts in each corner to mount the 4040 member

Step 14



- Use a flat bracket.

Step 15



- Use 4 screws, now 8 mm long. Start screws on all sides. Do not tighten yet.