Report 16/12/2022

I started the lesson by trying to assemble the rudder. It could be a nice piece if I didn’t fail the part where the metal rod must pass through. It was too thigh and for the link between each part, it was really hard to insert it, I used a hammer to place it. So I correct it on fusion and launch the printing at the end of the session to not overload the printer.

Then I choose to study the evolution of the speed of the motor. So I place it on a support that I hold with my and took the program that I wrote at the beginning of the year. I only need to modify it a little and arrange it to understand the inversion of the direction of rotation.

After a first try, I modify the holding support to a clamp joint because I hurt myself. As the motor start to vibrate a lot, I couldn’t hold it anymore and try to use my second hand. It was my mistake.

So the motor start to rotate when the PWN is 24, the speed doesn’t change until 54, then it speed up and doesn’t change until 60. At 60, the speed decrease progressively until the motor stop at 90, and it increase progressively and in a linear way. I only test until 124 because it speed up so much that I thought that the propeller would flight away.

But I think the motor will speed up until 150 and then decrease progressively if it work the same way that under 90.