Hello everyone

I will be presenting my integrated test, I tried to made a pinball machine

It consists out of 2 parts, the actual pinball machine, and a “payment module”

This module Is used to put Credits on this RFID badge, everyone has his own badge and could be used to pay so that you can play with the pinball machine or other things at an arcade centre or café etc.

I didn’t have an external partner or company that I contacted to make this.

At first I didn’t knew what to make, after some brainstorming I had lots of ideas but couldn’t decide. I did want to learn how RFID technology worked and I wanted something that has electronics, code and some hardware. In the end, the hardware and all the moving parts where to a bit to much, I should’ve just made a sensor communication system. Xx

Using 3D printing I was able to quickly test pieces and changed designs if I saw they had flaws. First I made some sketches on paper, then designed them in a 3D drawing software called Solid Edge.

I made the pinball machine from wood, well, my grandfather made it. I did make the marble tracks myself, these are steel wires soldered together. This spiral is driven by a stepper motor and is used to bring the balls up.