

AFTER THE FINAL PRESENTATION REPORT

(Version 2)

-Anssi Uistola, 2502616

-Juho Valkama, 2503673

-Topias Syri, 2504627

Idea

Once we assembled the artifact, we realized that some of the things were poorly designed and caused us some troubles. Also we could not anticipate that motors were not strong enough to move the alarm clock.

So we decided to make so adjustments to the artifact for 2 reasons. Mostly because if someone would like to build our artifact with our logs, models and code (for whatever reason), it would be great if they didn't have to do all the extra work we had to do. But also because our first 4 weeks reports were poorly made.

So to main problems we had with the final model.

Battery Hungry

Process

In the version 1, our code was refreshing LCD screen on every loop, which caused our 9V battery to last only around 8hours. This was definatly not ideal if you are looking for alarm clock. We made screen to refresh, only if time actually changes. Which should increase duration of the battery alot.

Too Much Mass On The Shield

Version 1 model had lot more mass around the shield than it required. In version 2 we were able to reduce mass by alot.

Wheels Not Moving The Clock

Process

Repositioned motors so we could fit in 4 ratchets inside. All of the 4 ratchets are connected with each other, we should help with the movement.

Also added front wheel, which should reduce friction.