20.0 Project plan

20.1 Version control

Version 1.0 - 4 February 2021 - first version
Version 1.1 - 9 February 2021 - typos fixed

20.2 Introduction

This global plan describes what steps to be taken in order to build your own DMO.

Step 1 Size

Define how big you want your DMO to be and how many planets you want to be serviced. Based on this decide what planet is an inner planet and what are outer planets.

Step 2 Set up and first planet

Set up your webserver and instal the JS Orrery scripts. Copy the client-software to your own GIT account and work from there.
Build the electronics for one planet (so 1 RPI, 1 driver etc.) in order to find out if you are comfortable enough to go all the way.

Step 3 Dimensioning the DMO

Make a detailed design for the frame.
Make a detailed design for the CNC cutter of all the (round) parts you need.

Step 4 Frame and winch

Do the CNC cutting (or find a company which will do it for you), make the frame. If you decide that you want to use a winch instead of manual hoisting do that before you make the frame.

Step 5 Inner system

Build the inner system.

Step 6 Outer planets

Build the cars for the outer planets.

Step 7 Test and calibrate the DMO

As the magnets are randomly placed in the orbits you need to calibrate the system.

Step 8 Paint

If all works fine you can paint and place the graphics.