4D Sight Computer Vision Test

Task: You are expected to find the 6DoF pose* of the camera** in images img2 and img3 w.r.t. pose in reference image img1. Plot the trajectory.

* solution for translation can be up-to-scale

** Assumptions for camera: aspect ratio is fixed, principal point is fixed (cx=960, cy=540) and there is no distortion in the camera

** For initial intrinsic guess, focal length for camera calibration could be set as f=100.

2D Points in “vr2d.npy”, 3D points in “vr3d.npy” are given as 2D-3D correspondences for a scene that taken from the same camera as in img1,img2 and img3.

Submission Procedure:

Please “reply all” to this e-mail and include:
- Public github repository url that contains your code and outputs
- Your CV in pdf format as an attachment to the e-mail [PDF name format: “Surname_Name.pdf”]
- Your linkedin url