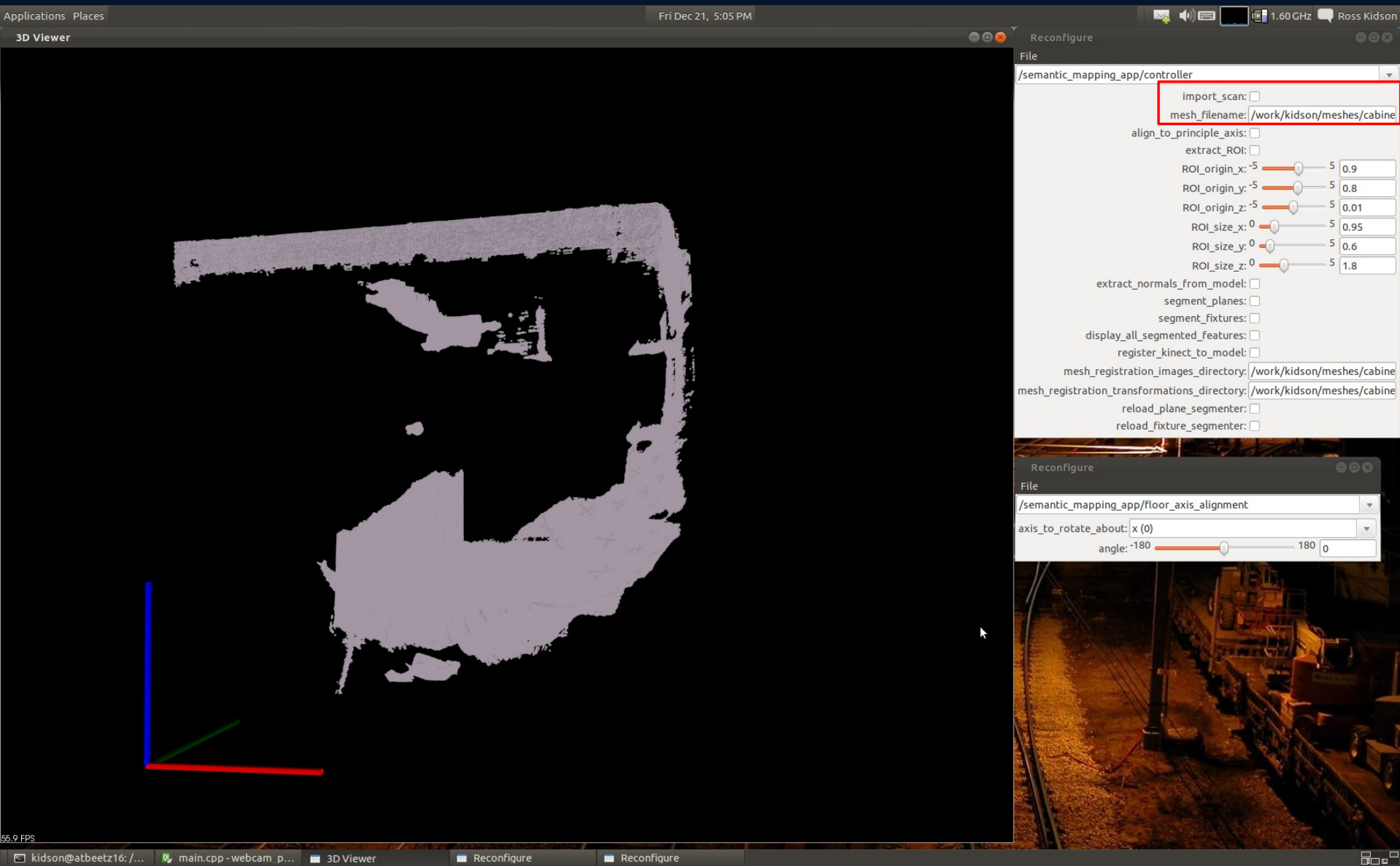
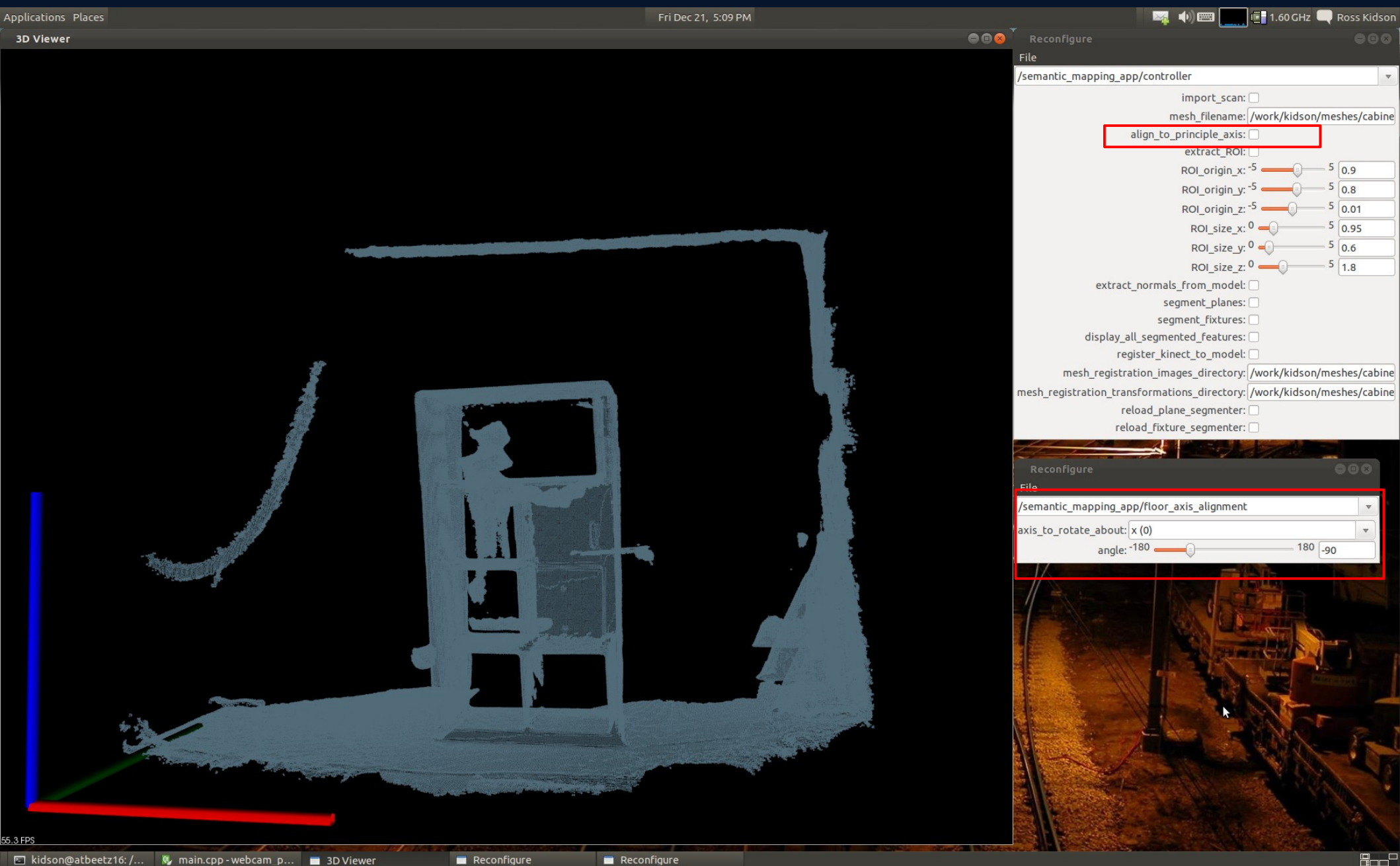


1. Import Scan



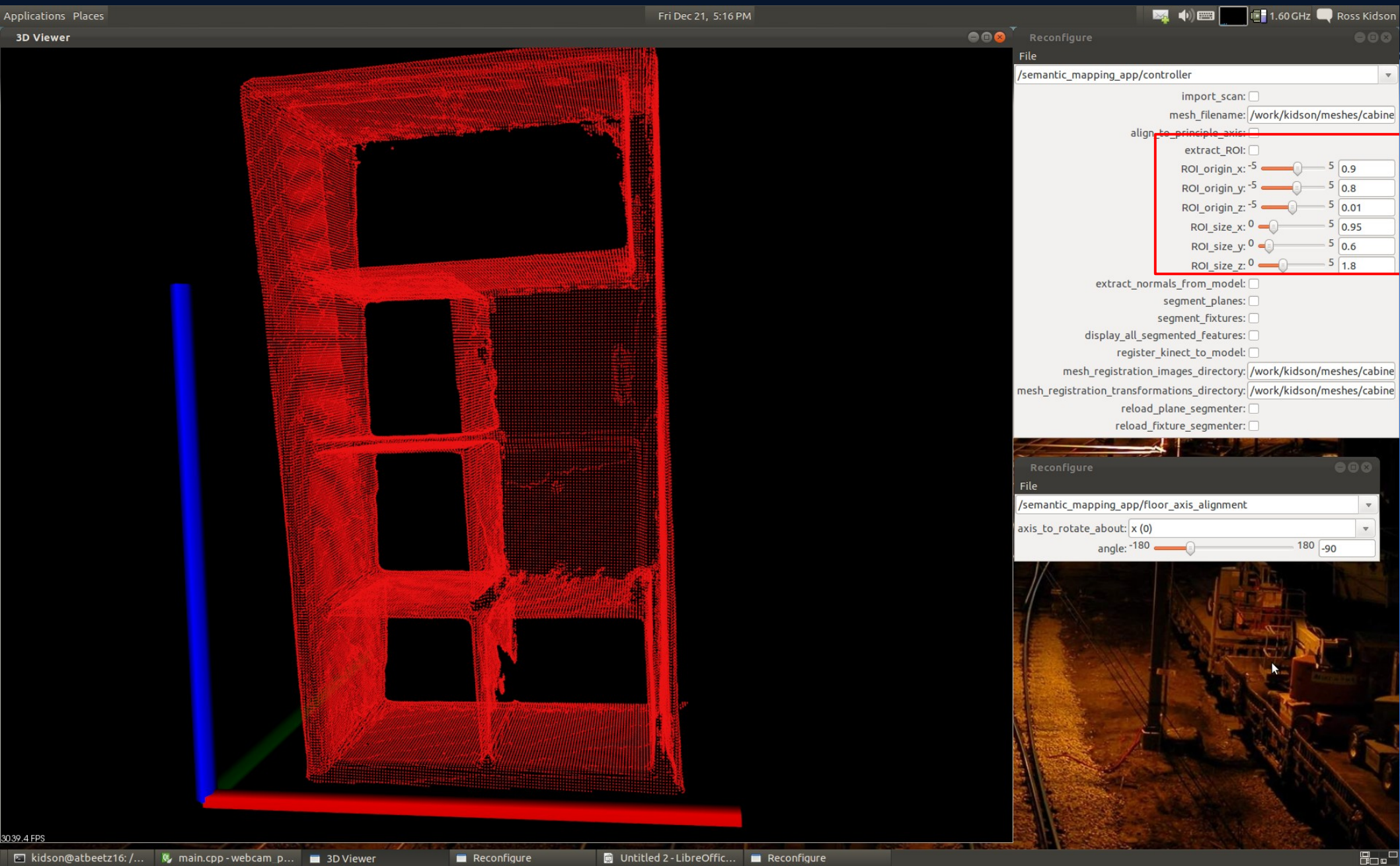
2. Align to principle Axes



2. Align to principle Axes

- Current operation: user must specify angle/axis rotation to roughly align model to axes
- Suggestions for improved automation/user input
 - 1. After large planes have been segmented, user clicks on planes to label the floor, walls and or ceiling
 - 2. User has some way to rotate either the model or the coordinate system to roughly be aligned to the model

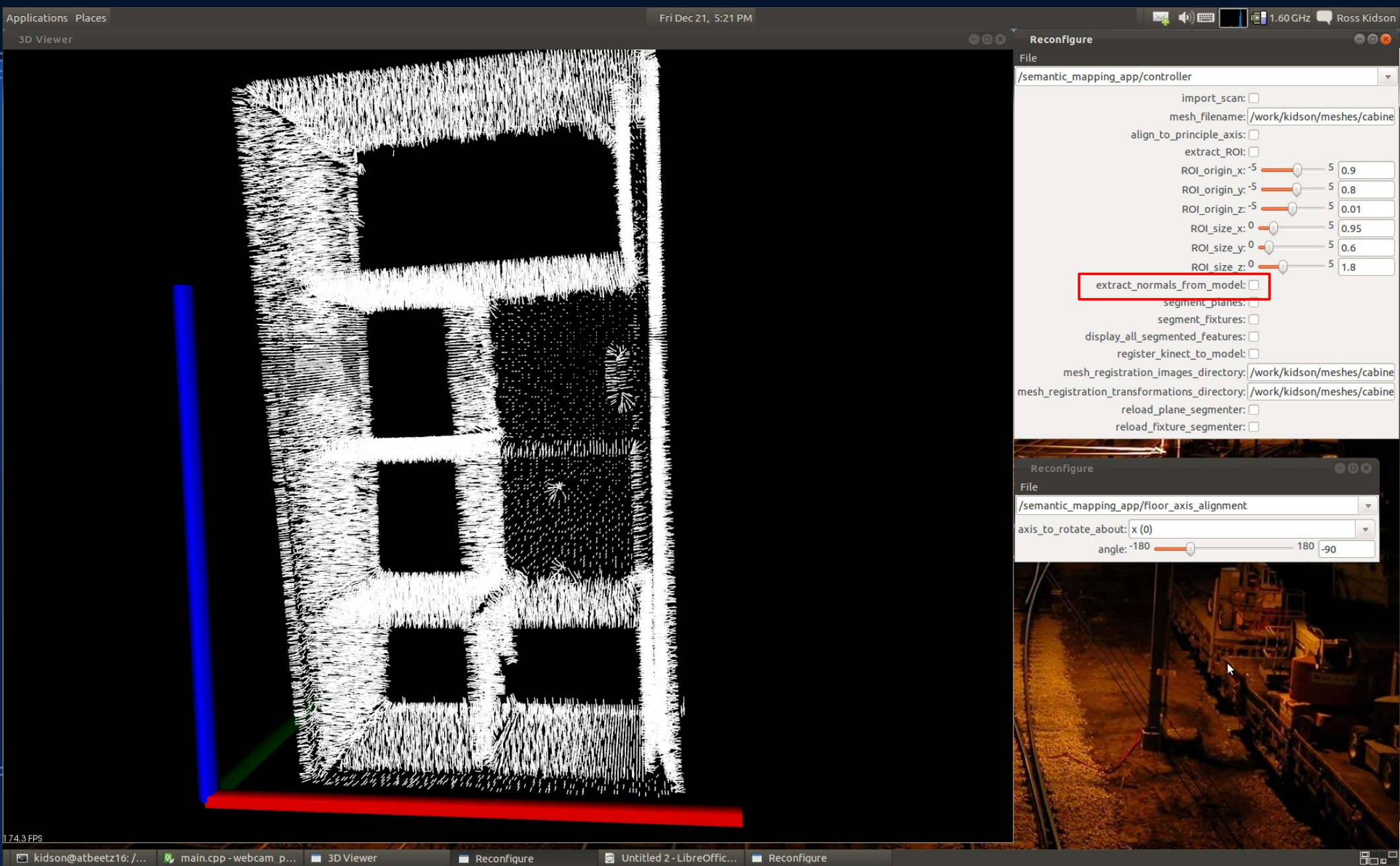
3. Extract Region of Interest



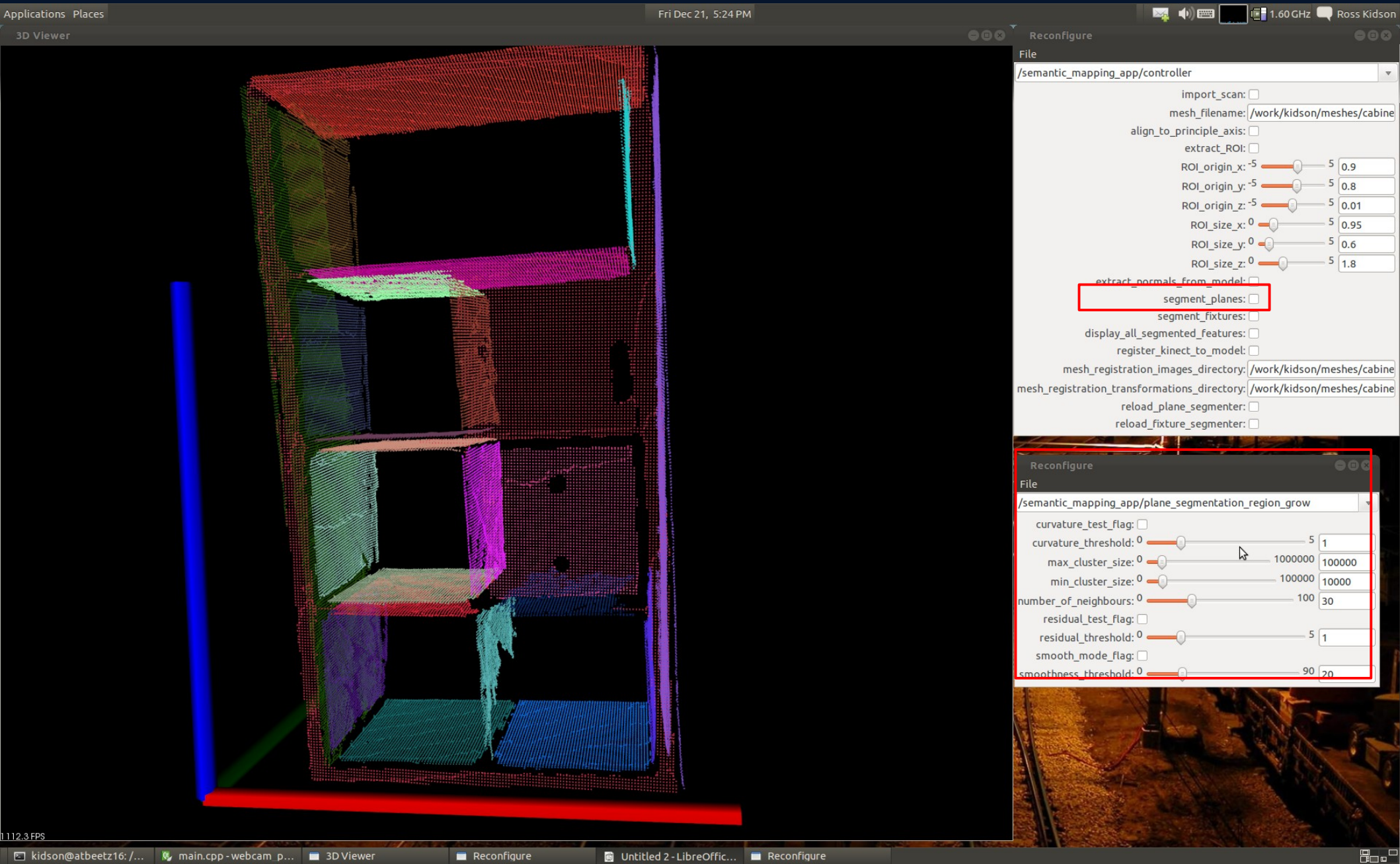
3. Extract Region of Interest

- Current operation: User must specify coordinates for an origin as well as the dimensions of the ROI
- Suggestions for improvement
 - A select tool to drag around the ROI
 - Allow the user to move the coordinate system to the correct place

4. Extract Normals



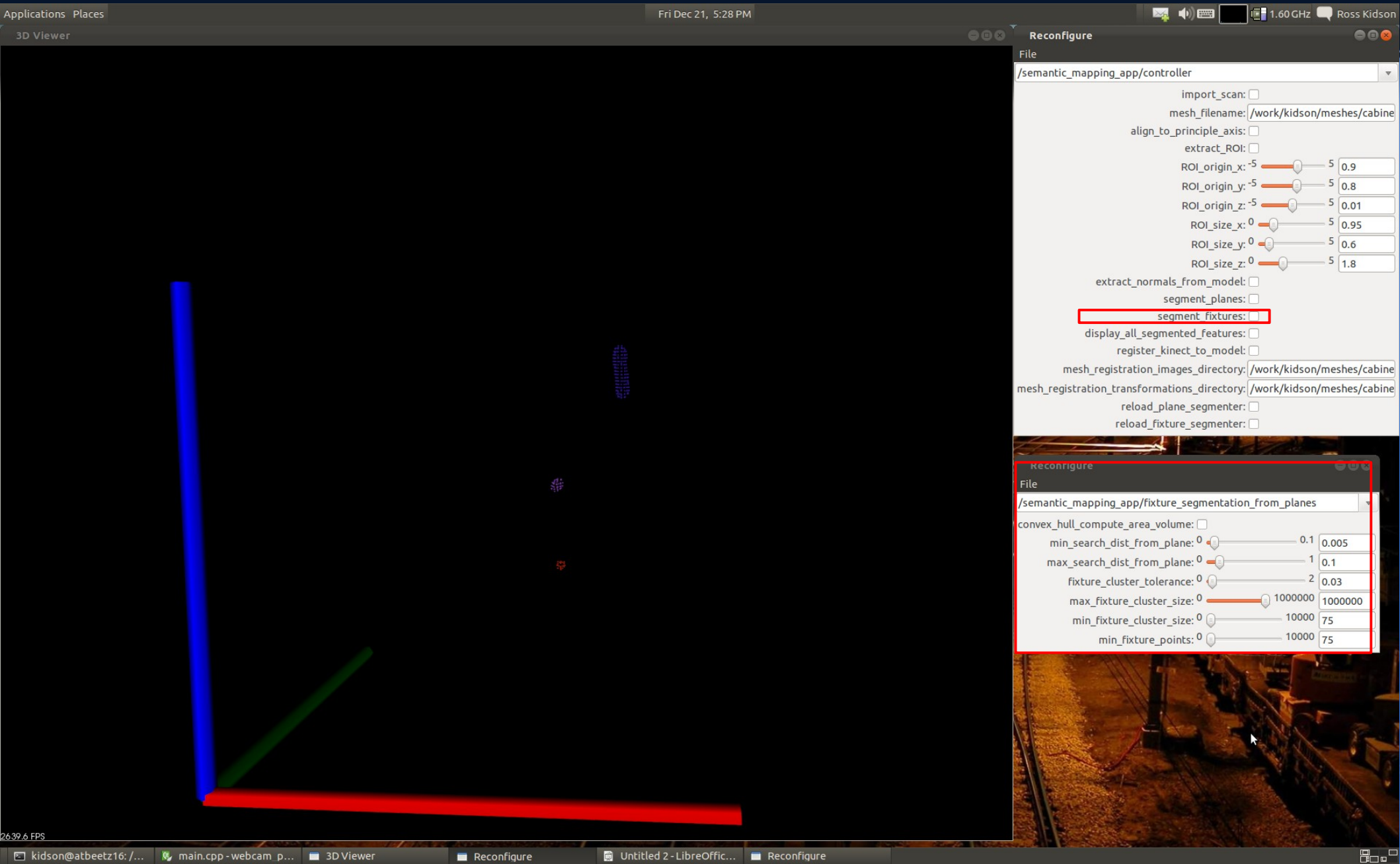
5. Extract Planes



5. Extract Planes

- Possible user interactions
 - Select incorrect segmented planes
 - Merge/split planes
 - Label planes
 - Designate planes to certain semantic objects
 - Doors
 - Containers
 - etc.

6. Extract Fixtures



6. Extract Fixtures

- Possible user interactions
 - Select which planes to segment fixtures from
 - (the planes from which to look for fixtures is currently hardcoded, but it should be possible to make the algorithm smart enough not to need this input)
 - Select correct/incorrect fixtures
 - Label fixtures
 - Designate fixtures to other semantic objects (doors etc)

Result thus far

