

What did I do this week?

- Worked on convex decomposition, couldn't find a good framework to do it with. Will have to implement it myself. Will probably first do this after writing the report.
- Tried to find alternative ways to get data for testing. Didn't go so well either.

Challenges

Last time there was some confusion with regards to the dataformat, the reason for this is that the data is simply given in triangular coordinates. The data is not in any specific CAD format.

```
<?xml version="1.0" encoding="utf-8" ?>
<dbe Origin="IFCExtract">
  <Room PermanentID="06Nq08bQX07hzFUDJa89in" MinElevation="-2.154" MaxElevation="1.646" Name="
  Cirrculation" Number="19" Area="599.3147">
    <Triangles Coords="141.145,106.826 144.037,106.826 144.037,95.639 144.037,95.639
    141.145,98.289 141.145,106.826 141.145,98.289 144.037,95.639 123.933,95.639 123.933,95.639
    115.16,98.289 141.145,98.289 115.16,98.289 123.933,95.639 123.933,63.711 123.933,63.711
    123.921,61.034 115.16,98.289 115.16,98.289 123.921,61.034 118.03,61.034 115.16,98.289
    118.03,61.034 118.03,52.55 118.03,52.55 115.16,52.55 115.16,98.289 173.158,63.711
    173.158,61.103 170.306,61.034 170.306,61.034 129.323,61.034 173.158,63.711 123.933,63.711
    173.158,63.711 129.323,61.034 123.933,63.711 129.323,61.034 129.323,58.719 129.323,58.719
    123.921,61.034 123.933,63.711 129.323,58.719 123.921,58.719 123.921,61.034 170.306,61.034
    173.158,61.103 173.349,61.103 173.349,52.55 170.306,61.034 173.349,52.55
    170.306,52.55 170.306,61.034 " />
    <Property Name="Reference" Value="Cirrculation 19" />
    <Property Name="Category" Value="Areas" />
    <Property Name="Layer" Value="A-AREA-____-OTLN" />
  </Room>
```

I couldn't find any good places to get floor plans in this dataform.

I got a bit stuck this week with convex decomposition and therefore I am a bit behind schedule.

My plan for the next 6 weeks:

- Finally solve the challenge of connecting the doors to the nearest neighbours. 1 week.
- See if I can do optimal node placement by doing convex decomposition. 1 week.
- Start testing 1 week.
- Write report. 3 weeks.

I would like to do the optimal node placement before testing.

How much time do you think I should allocate only for report writing?