The concept of my key project should enhance the understandings between industry and neighbourhood. The building should mediate between those two attributes. The trend of growing creative art/industry would be a core important attribute of the neighbourhood, that is gradually growing from the east side of Pilsen to the west. Furthermore, the future development of Pilsen should go to a direction where people should not see the industry in general as a threat but as a new opportunity. The new opportunity will embedded a new type industry attribute that will revolutionize manufacturing.

The Digital Manufacturing and Design Centre will empowering people with new skills and possibilities, whilst providing a public facility and meeting place for locals. It also creates a fertile ground for entrepreneurship and startups, by democratizing manufacturing. People can gain knowledge, skills and will get a grip on the applications and inspiring opportunities created by new technologies. The main goal is to bring people from the neighbourhood (such as artists, talents, students, spin-offs, start-ups) and people from new advanced industries (industrial leaders, manufacturers) together, in such way to ease the old mind-set of industry and create new relationship with each other.
Floor Plans 1:500

Roof

Roof Floor

First Floor

Basement
Facades long 1:500

Section 1:50 C' - C''
Exploded view
Exploded view diagrams

Structure

Vertical Movements

Main Themes and Activities

- Showcase and Retail
- Creativity and Knowledge
- Make and Production
Bufferzone and Individual Spaces

Winter:
- Buffer warm up by Solar irradiation
- Energy exchange > WTW ventilation, heat pump> aquifer
- Private spaces: extra climatized if needed
- Collective spaces: extra climatized if needed

Summer:
- Buffer less warm up by using PV sunshading
- Energy exchange > WTW ventilation, heat pump> aquifer
- Private spaces: extra climatized if needed
- Collective spaces: extra climatized if needed

Climate Summer 1:100

Climate Winter 1:100
Section cut out 1:20 C’- C’’