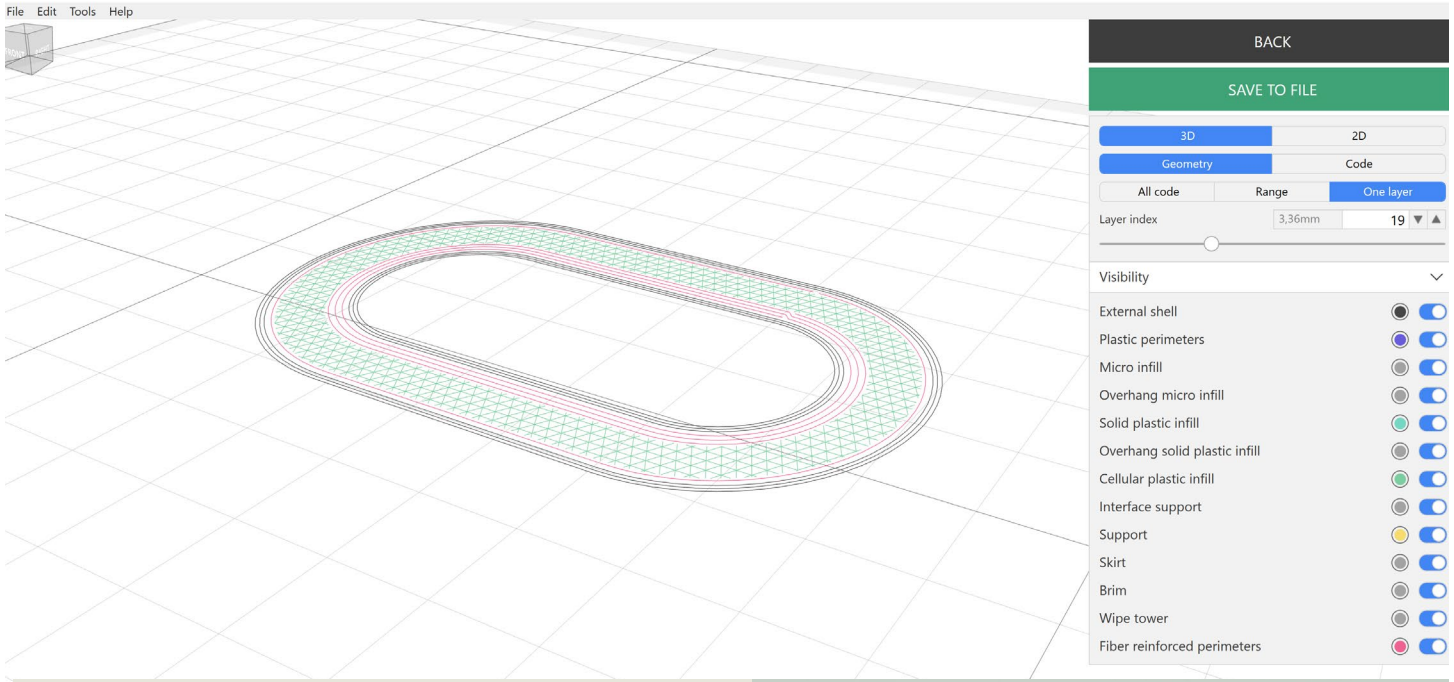

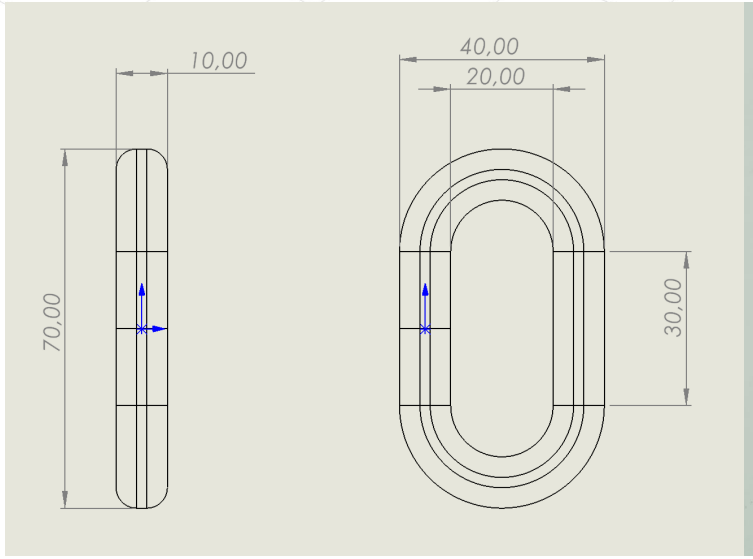

Continuous-carbon-fiber-reinforced 3D printing of a small link design and its lifting demo

Materials:

- PETG (InnoPET) as matrix
- Continuous carbon fibre – Anisoprint CCF 1.5k

Parameters:

- Filament diameter 1.75mm
- Extruder temperature 210°C
- Buildplate temperature 60°C
- Printing speed 30 mm/s

CCF-reinforced link:

- Printing time 4h 46 min
- Materials used
  - PETG 4.7 m + 0.8 m
  - CCF 1.5k 15.8 m

Kirsi Kukko and Siddharth Jayaprakash on behalf of WP2

PETG-CCF 3D printed prototypes

- Brackets with CCF-reinforced perimeters.
- Ring design with CCF infill.

3D printed by Kirsi Kukko and Siddharth Jayaprakash on behalf of WP2, utilizing Anisoprint Composer A4