

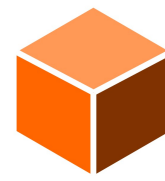
3D

3D PRINT REPORT

SCHOOL	COUNTRY
Šolski center Velenje, Šola za strojništvo, geotehniko in okolje (School Centre Velenje, School of Mechanical Engineering, Geotechnics and Environment)	Slovenia
PROJECT NAME	Mentor
Mill on the Mura river	Viljem Osojnik
STUDENT NAMES	DATE
Brin Krk Sovinc, Patrick Kuzmič, Kenan Jašaragić	May 2023

A type of 3D printer	Anycubic Mega X
Used material	PLA
Filament diameter	1,75 mm
3D CAD program	SolidWorks
SLICER programs for 3D	Cura





SUBJECT OF MODELING ON THE TOPIC OF TRADITIONAL CRAFT AND CULTURAL HERITAGE

The mill on the Mura river, which is a floating mill on the Mura river, near the town of Veržej. The oldest evidence of floating mills on the Mura River dates to the 18th century. The first mills were simple and small, but eventually developed into large and complex structures that could produce a large amount of minced grain. Floating mills on the Mura river are an important part of Prekmurje's region cultural heritage. The millers were important members of the community and contributed to the development of the economy and agriculture in the region. Floating mills were an important source of raw materials for food and other products and semi-finished products needed by the inhabitants of Prekmurje region.

DESCRIBE THE WORK PROCESS

- Formation of working group, division of roles and tasks of group members.
- Selection of a suitable natural and cultural heritage object
- Field trip to Veržej and field study of the mill
- Measurement the model of the mill with mobile phone app and measurement devices (3D hand scanner and ruler)
- Preparation of 3D digital model, constructing a 3D model and preparing components for 3D printing
- 3D modelling of the mill
- 3D printing of assembling parts of the mill
- Additional processing: sanding, grinding and polishing
- Gluing, painting and assembling of 3d printed components and parts of mill

DESCRIBE ANY DELAYS AND/OR INCIDENTS

Actual mill was taken away by floods on Mura river.

