

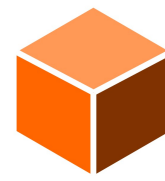
3D

3D PRINT REPORT

SCHOOL	COUNTRY
Šolski center Velenje, Elektro in računalniška šola (School of Electrical and Computer Engineering)	Slovenia
PROJECT NAME	Mentor
Aljaz's tower	Viljem Osojnik
STUDENT NAMES	DATE
Luka Daničić	May 2024

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





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

Aljaž Tower is a mountain shelter at the top of Triglav, which is the highest mountain in Slovenia, built in 1895 by priest Jakob Aljaž. At 1.9 metres high, it is the highest mountain shelter in Slovenia. The tower is a symbol of Slovene identity, owned by the state, and was declared a cultural monument of national importance in 1999. It has been adapted and restored several times in the past, most recently in 2018.

DESCRIBE THE WORK PROCESS

- Selection of a suitable natural and cultural heritage object
- Selection and preparation of a 3-D printed model with on-line research
- 3D modelling of the Aljaž's tower in Solidworks (scale 1 : 10)
- Preparing of 3D models for 3D printing
- 3D printing of components
- Assembling the components
- Painting and varnishing (preparation of suitable colour, applying the base colour, applying the final colour)
- Making of realistic replica (adding details: ropes, flag)

DESCRIBE ANY DELAYS AND/OR INCIDENTS

Prepare the desired shade of colour.

