



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
Museum pistol Walther PPK	Viljem Osojnik
STUDENT NAMES	DATE
Patrik Hladin, Jure Šket, Benjamin Muslimović Bešić	May 2023

A type of 3D printer	Anycubic Kobra 2 max
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 Walther PPK was a small pistol manufactured in 1931 by the German company Carl Walther GmbH. The pistol was intended for civilian use and was very popular among European police and security forces. Because of its small size and reliability, it was also popular among military commanders. The pistol was the personal weapon of German Colonel General Alexander Löhr, commander of German Army Group E, who signed the surrender of his units on May 9, 1945 in Topolšica.

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
- Selection and preparation of a 3-D printed model with on-line research
- Making of 3D model of the pistol
- Preparing of 3D models for 3D printing
- 3D printing of components
- Assembling the components
- Painting (cleaning the surface of the pistol, preparation of proper colour, applying the base colour, and final colour) and adding details
- Making of realistic replica of iconic weapon

DESCRIBE ANY DELAYS AND/OR INCIDENTS

Finding a desire colour of the replica gun.

