

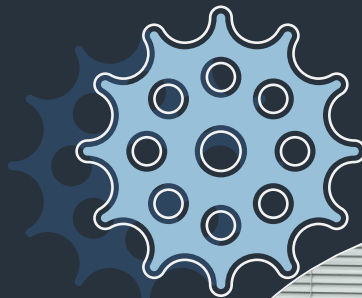
Plastic extrusion station

2023 Lutín – Wetzlar



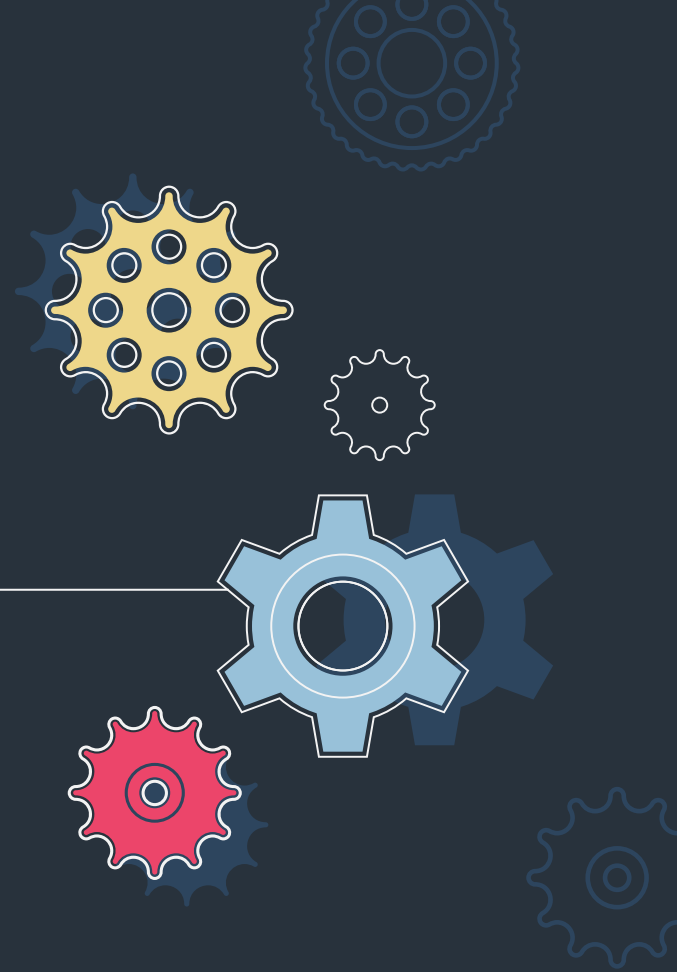
01

Project Functions



Project Functions

This project is designed to build a machine powered by manual energy to melt plastic in a hollow shaft and then inject it into a mold made by us.





Niko Fürstenberg

Ilja Diehl

Martin Fiala

Daniel Weidinger

Workshop team

Functions of the workshop team

The workshop team is responsible for assembling the entire project and manufacturing the components.





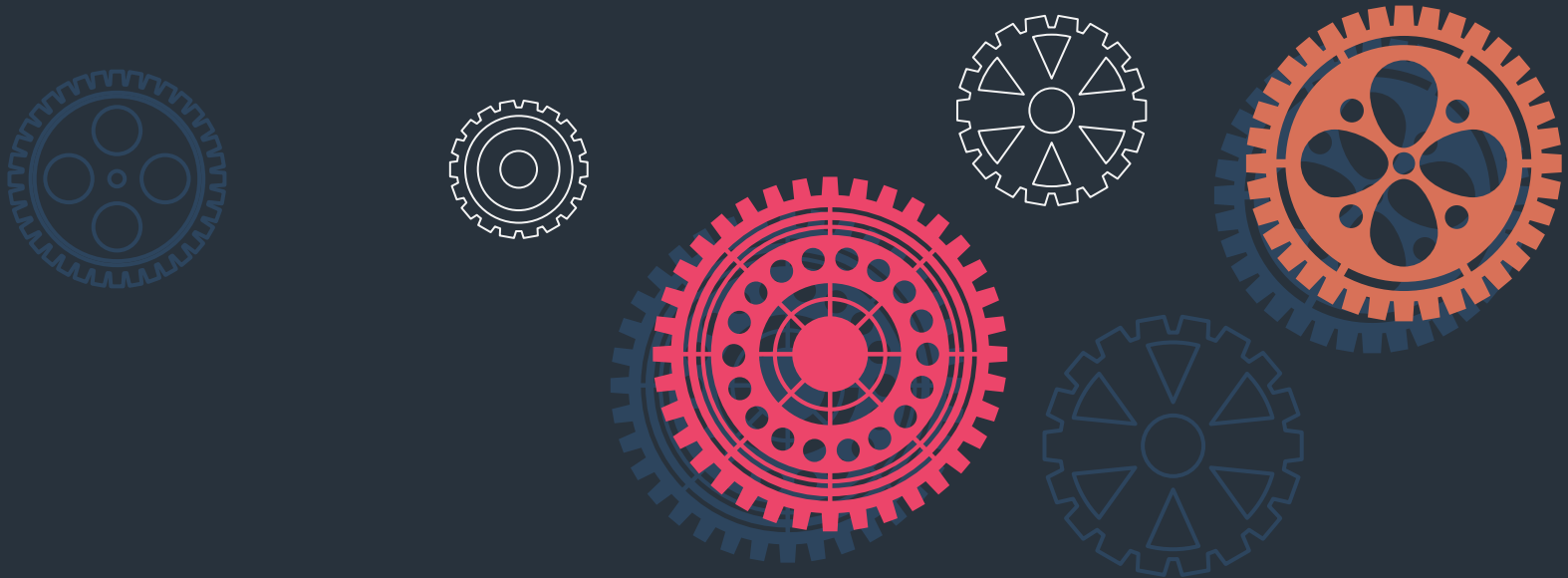
Daniel Blažek

Dimitrij Valenta

CNC team

Functions of the CNC team

The main task of the CNC team is to create the milling program for the mold and then help CAD and workshop team their work.





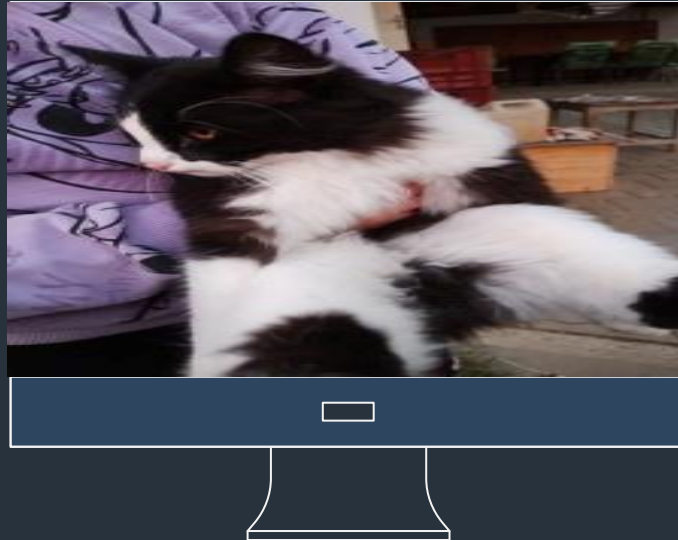
Oliver Švec

Adam Šimara

CAD team

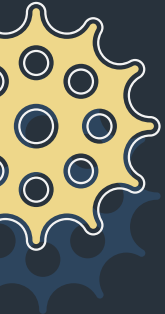
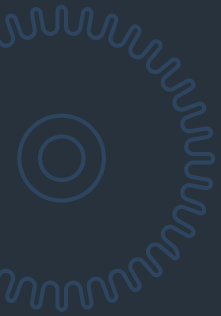
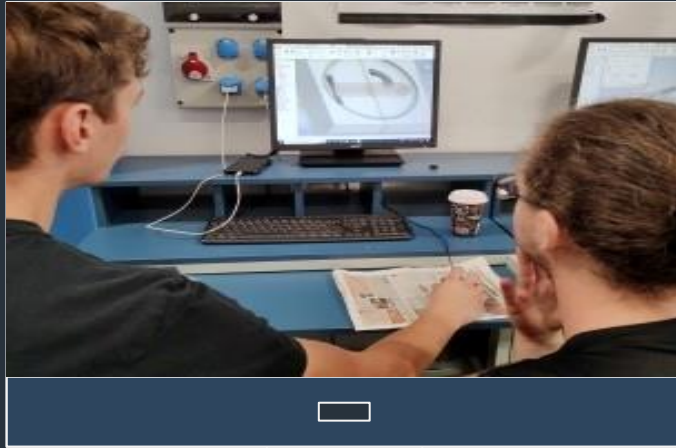
Functions of the CAD team

The CAD team must model and design all components for maximum productivity and functionality of the machine and product.



Functions of the CAD team

The CAD team must model and design all components for maximum productivity and functionality of the machine and product.





Matěj Maholiak

Filip Urban

Tom Preußner

THIS IS THE VIDEO-DOCUMENTATION
team



Functions of the video-documentary team

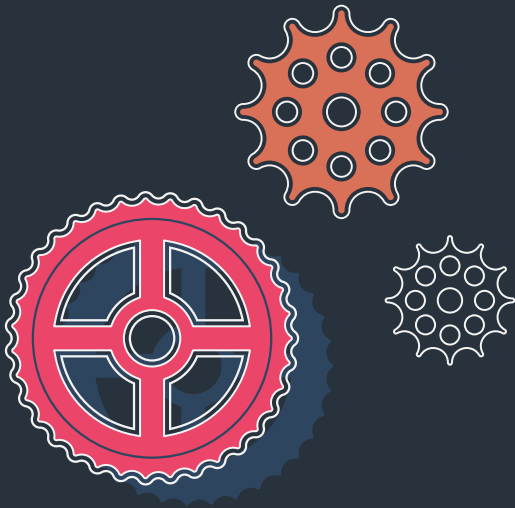
Throughout the project, this team filmed various moments from which they cut a short film at the end of the project.



Kamil Nezval
Richard Rußmann

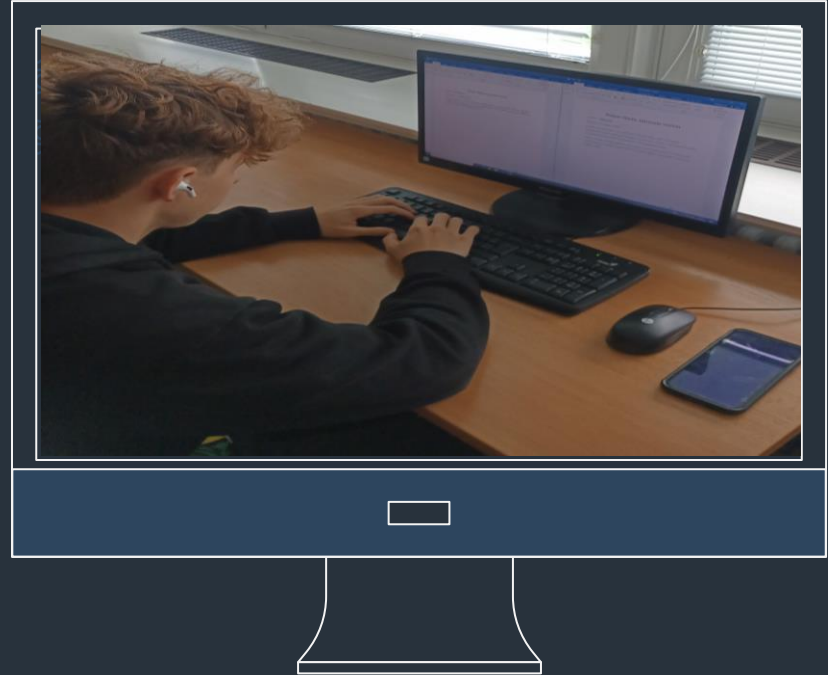
Jan Ševčík
Martin Knajbl

Documentation team



Documentation team

The work of the documentary team consists of writing articles from each day, taking photos and creating presentations to present the final project.



Other activities

- On Tuesday we went sightseeing in Olomouc and the old town, we saw the town hall, theater and many other wonders of Olomouc.



On the tour in Olomouc, we stopped for a delicious lunch, which consisted of burger, french fries, tartar sauce and a drink. It was really delicious.



Other activities



Here we are on a trip to Prague, where we spent the whole weekend and it was really beautiful.

Other activities



Thursday was dedicated to the trade fair in Brno, which was full of new technologies, which was very interesting.

Final Product



Here, we push out the molten material with pressure.

Here we can see the molten material flowing from the injection nozzle.



Final Product



Thanks you for your attent

Do you have any questions?

School website:
sigmundovaskola.cz



Co-funded by the European Union



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Resources

Photos by: Martin Knajbl and Filip Urban

Information by: Jan Ševčík, Kamil Nezval and Richard Rußmann

