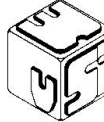

Project Lutín – Wetzlar (Autumn 2019)

Werner - von - Siemens
Wetzlar Schule 





What is going on?

- This project, called E-Scooter, is a project between our schools of Lufán and Wetzlar, sponsored by the European Union
- There were 28 students from both schools, working on this project
- We were divided into two teams
- Each team was divided into four groups : - CAD group, CNC group, Workshop group and Documentation one
- There was also one Video-Documentation group



WHAT IS AN E-SCOOTER?

- E-Scooter is modified with special electric power unit
- The power unit (in this case) is a cordless drill
- The cordless drill is powering one smaller wheel, which is powering the rear wheel of our scooter

TEAMS – TEAM 1



Denis Kadias
David Schaefer
Max Schweitzer
Dieter Faust
Lennart Ruscheinski



Miloslav Janeček
Miroslav Datel
Marek Hlavička
Dominik Soor
Jakub Vymlátíl
Tomáš Hrbata
Štěpán Kappl
Filip Tůma



TEAMS – TEAM 2



Kerem Eren
Louis Baena Claas
Silas Schmidt
Lea Maria Hartmann
Luca Auth
Timo Burk



Tadeáš Kadlec
Ondřej Vybíral
Karel Kobliha
Šimon Kubálek
Martin Přidal
Michal Uhlíř
Michal Pekař



CAD GROUPS

TEAM 1:



Denis Kadias



Kerem Eren
Louis Baena Claas



Miloslav Janeček
Mirek Datel



Tadeáš Kadlec
Ondřej Vybíral

CNC GROUPS

TEAM 1:



David Schaefer



Marek Hlavička
Dominik Soor

TEAM 2:



Silas Schmidt



Karel Kobliha
Šimon Kubálek



WORKSHOP GROUPS

TEAM 1:



Max Schweizer
Dieter Faust



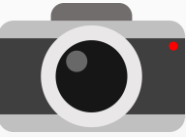
Lea Maria Harmann



Jakub Vymlátil
Tomáš Hrbata



Martin Přidal
Michal Uhlíř
Michal Pekař



DOCUMENTATION GROUPS

TEAM 1:

TEAM 2:



Lennart Ruscheinski



Luca Auth



Štěpán Kappl
Filip Tůma



Petr Kalabis
Pavel Houb



VIDEO-DOCUMENTATION GROUP



Marko Pilok
Timon Zelenak





TASKS

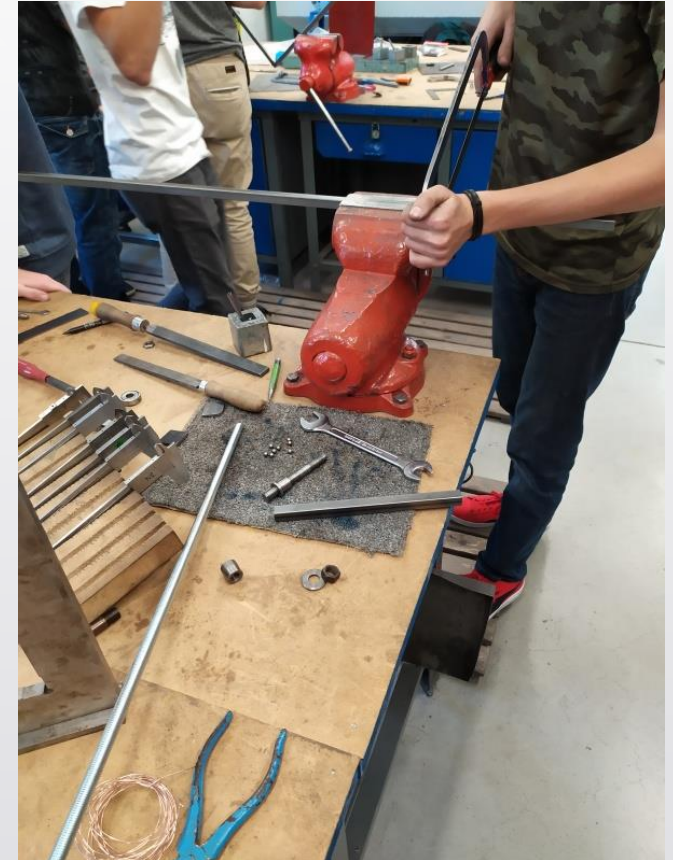
- 1. To create a construction, production and assembly of a scooter powered by an acu-drill.
- 2. To create technical documentation
- 3. To create programs for the CNC machines
- 4. Finish the project
- 5. Prepare the final presentation



PLANNING

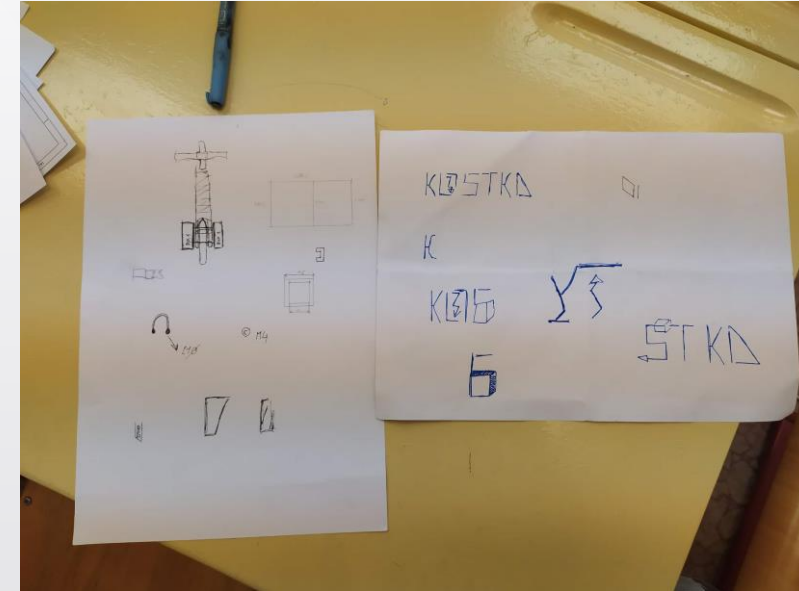
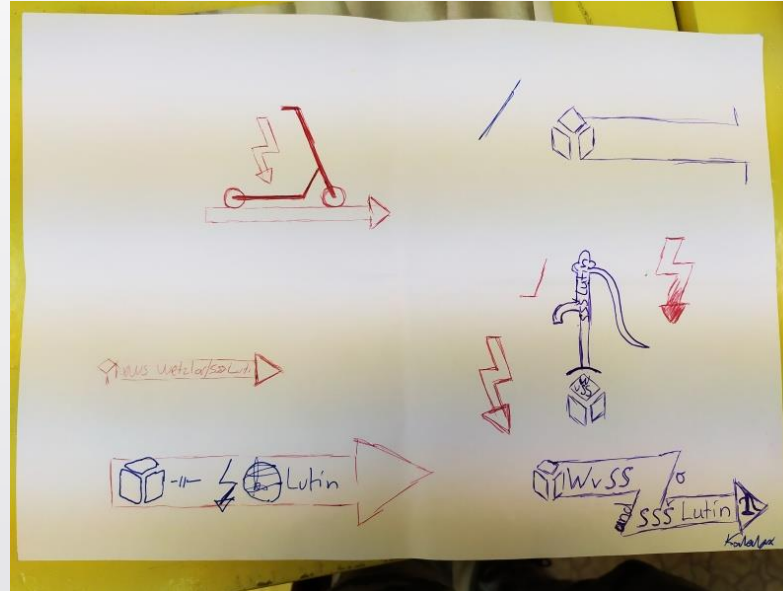
- The first thing that both teams had to do was to create a construction for the drill to be attached to the scooter
- Another task was to come up with a design for boxes which would protect the whole construction
- We also had to design a plate with our logos
- This was a task for the whole team
- Designs were finished the other day and the work could begin

PHOTOS

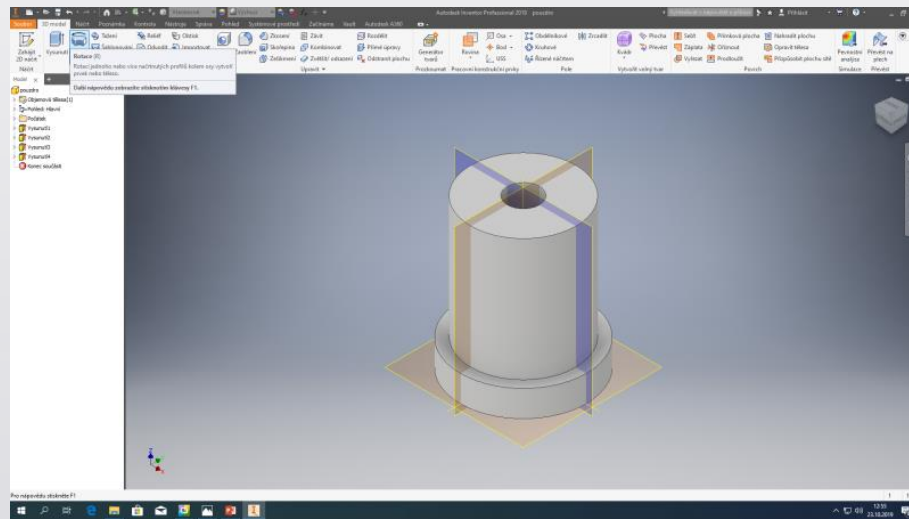
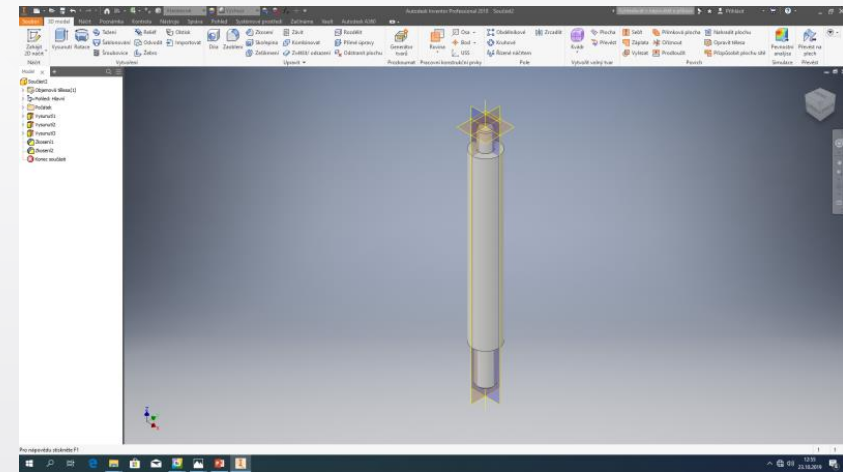
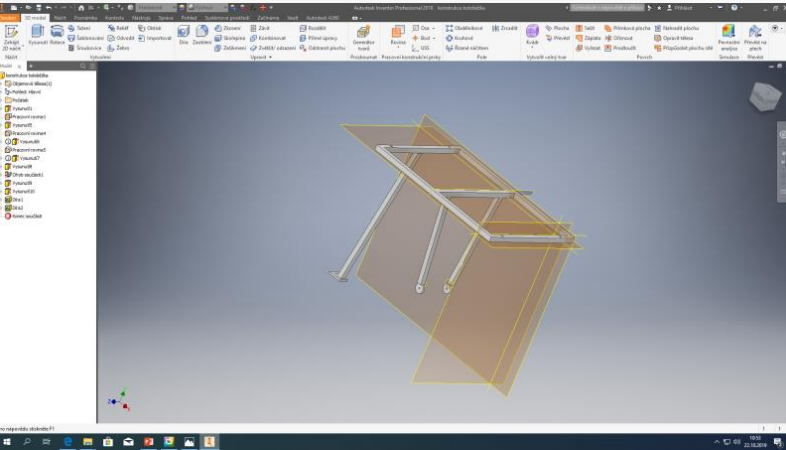


OUR IDEAS ON PAPER

- At the beginning we drew some sketches for our CAD teams, which will be converted into technical drawings for the CNC and workshop groups



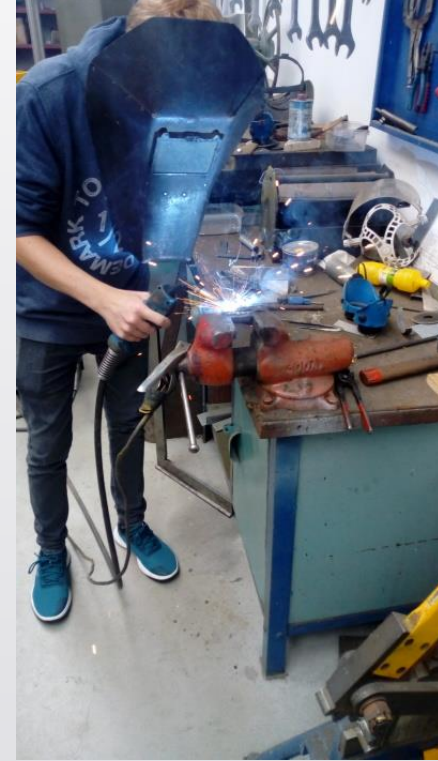
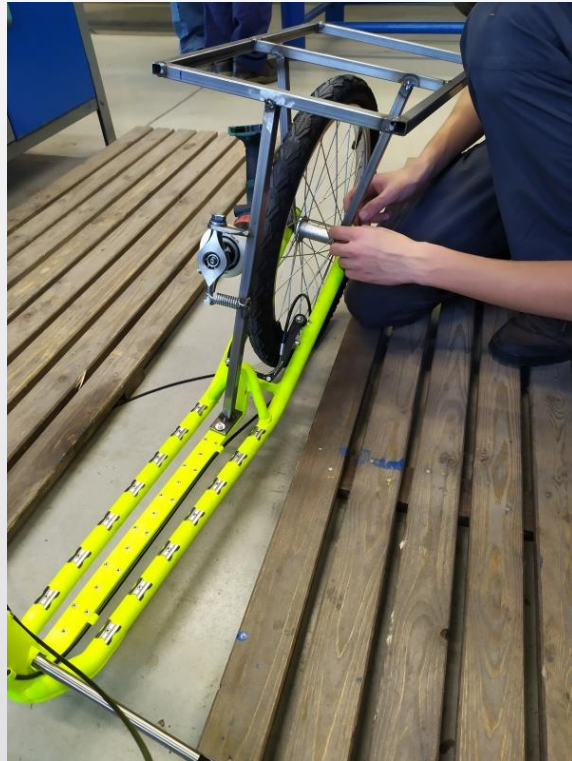
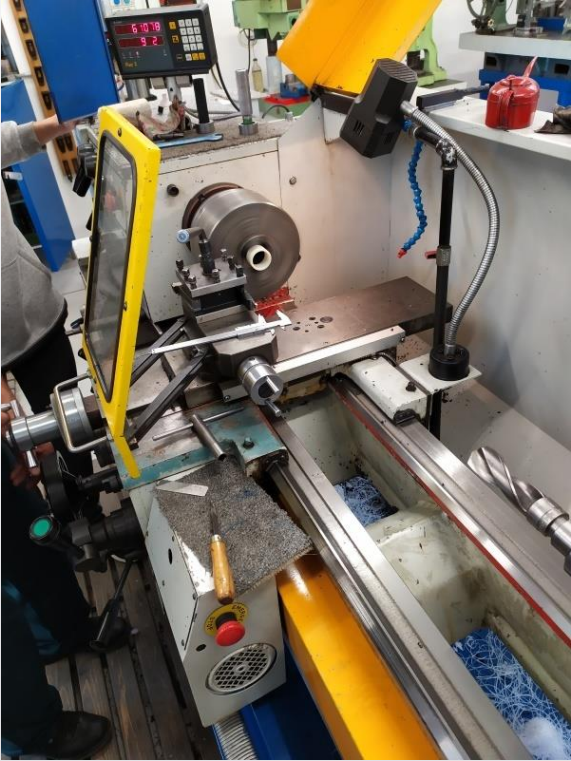
FINAL MODELS



PROGRAMING



CRAFTING

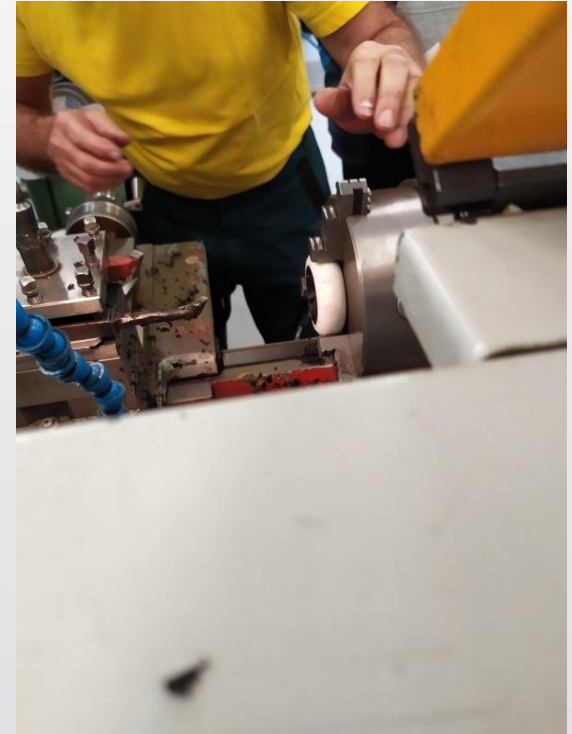
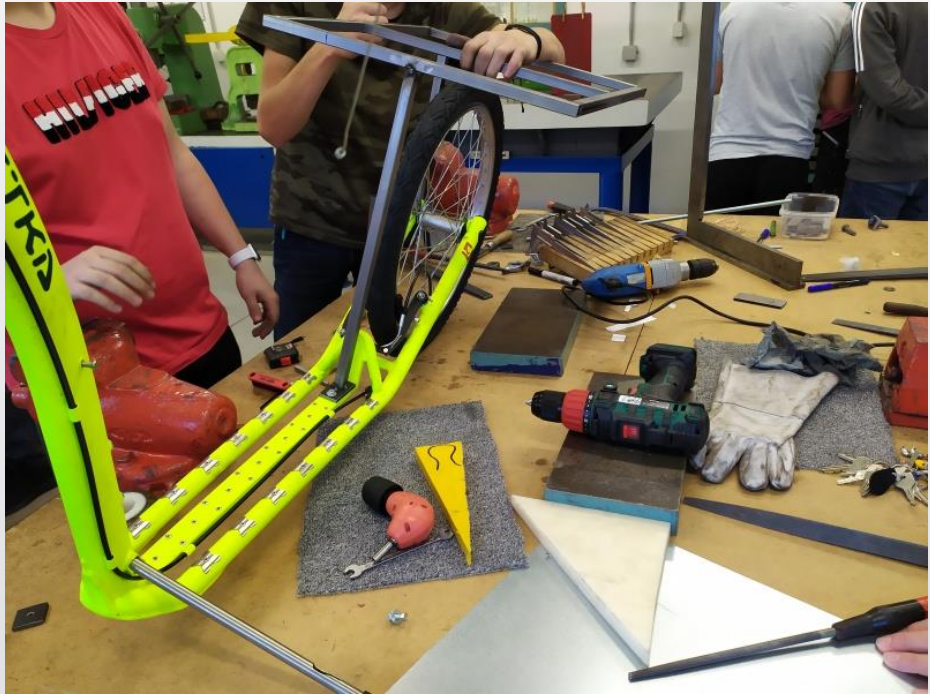


MEANWHILE ON WORKSHOP

- Meanwhile the workshop groups were working on attaching the frame and protecting boxes for our scooters
- The workshop groups were responsible for completing the whole project but they got help from the CNC groups

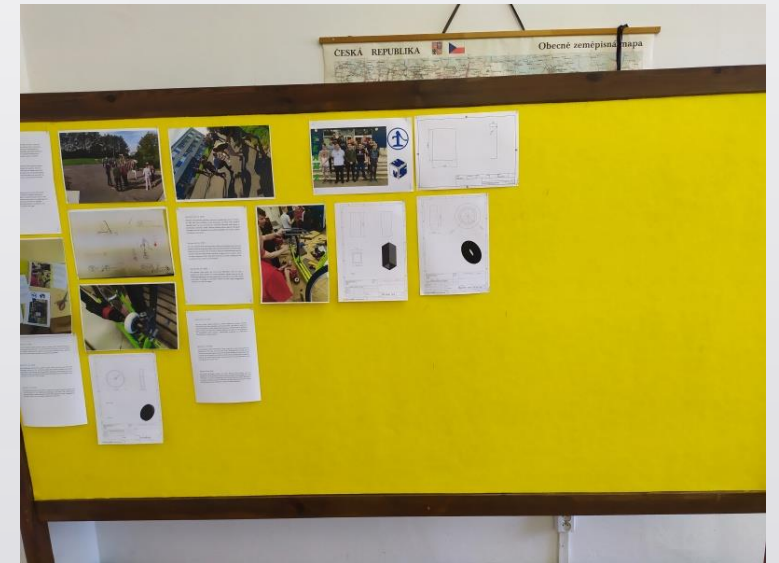
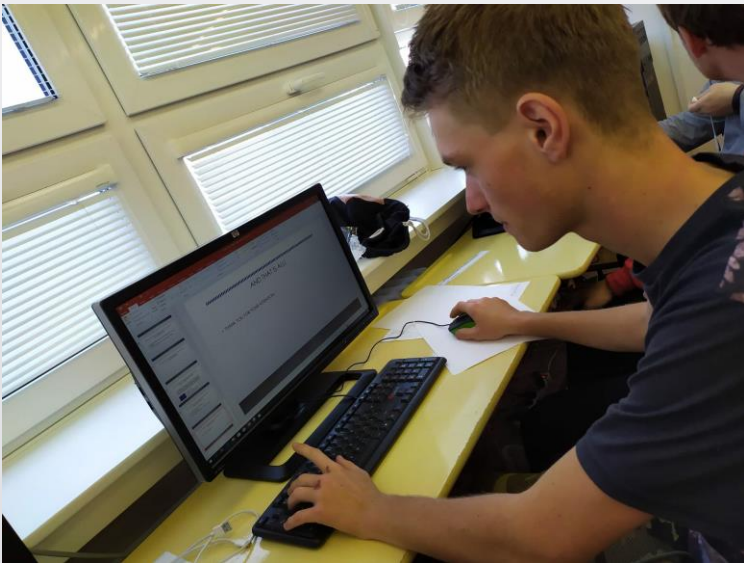


PHOTOS FROM WORKSHOP



DOCUMENTATION

- Throughout the project the documentation groups observed our work and documented it
- Meanwhile the video-documentation group worked on the video



OUR MASTERPIECES



THANKS TO EUROPEAN UNION

- The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein



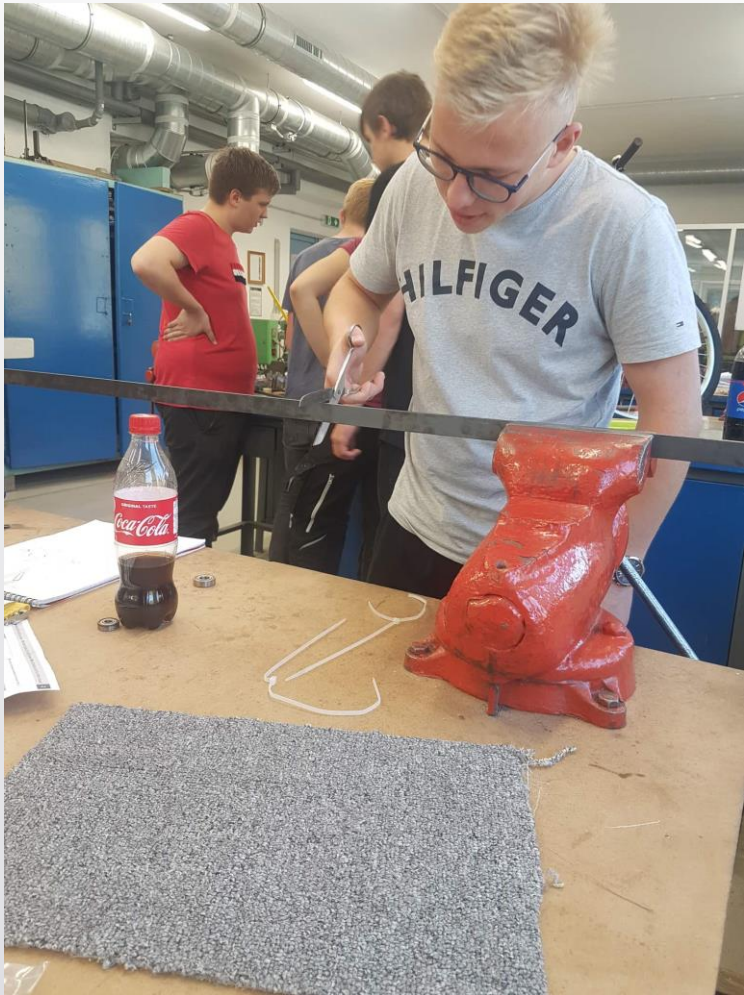
Funded by the
Erasmus+ Programme
of the European Union



SPECIAL THANKS TO...

- Our management and teachers for helping us with the project
- Lutín school for inviting us
- Mr. Kenický, the IC advisor for connecting all computers we worked at.

FUNNY STUFF



AND THAT IS ALL!

- THANK YOU FOR YOUR ATTENTION!

