

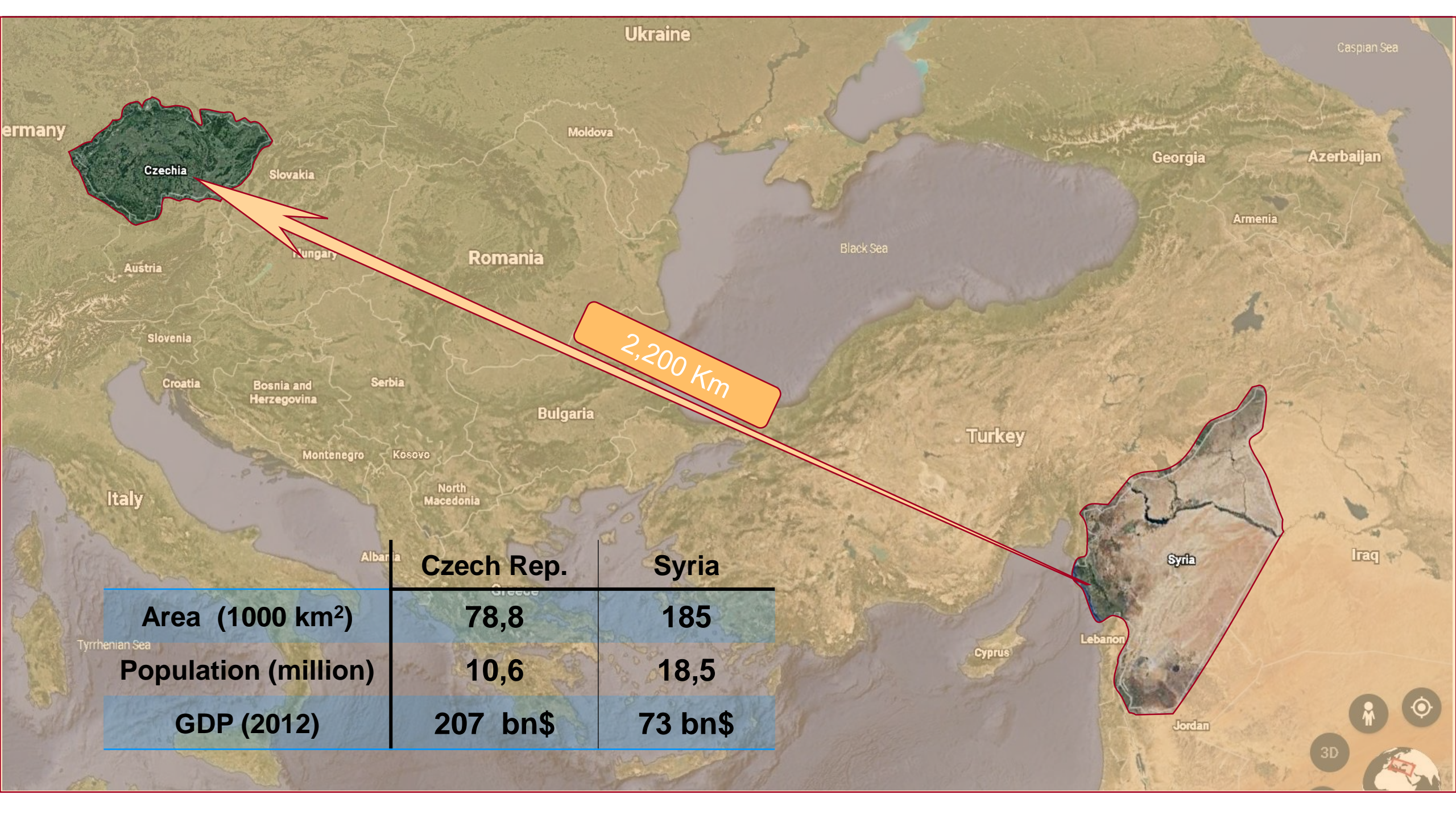
Introduction of The First Year Ph.D Student

Housam Mohammad, Eng.

ÚSTAV KONSTRUOVÁNÍ
Fakulta strojního inženýrství
VUT v Brně

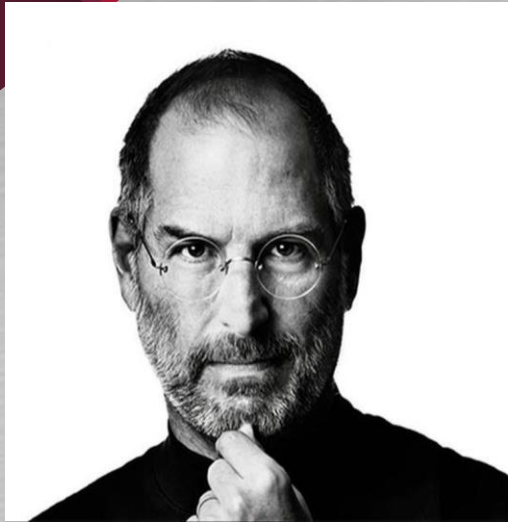
Brno, 05.06.2019





2,200 Km

	Czech Rep.	Syria
Area (1000 km²)	78,8	185
Population (million)	10,6	18,5
GDP (2012)	207 bn\$	73 bn\$



Ugarit

Steve Jobs' father is from Syria



Damascus Steel



First Musical Note
Ugarit



The First Recorded Alphabet

My Syria

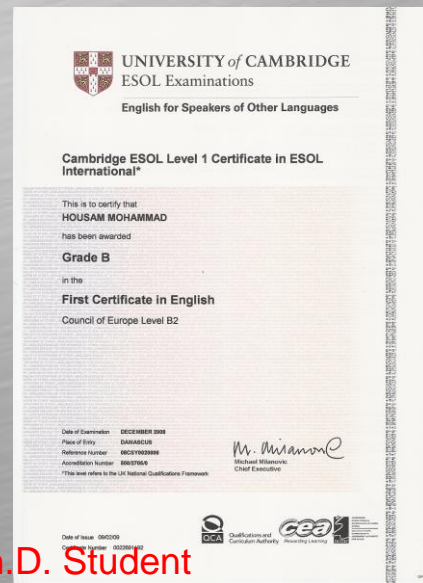


Education

- Graduation from Damascus University, Faculty of Mechanical Engineering, Mechanical Design Department
- Master's Degree in Production Automation, Damascus University
- FCE from Cambridge University



My College

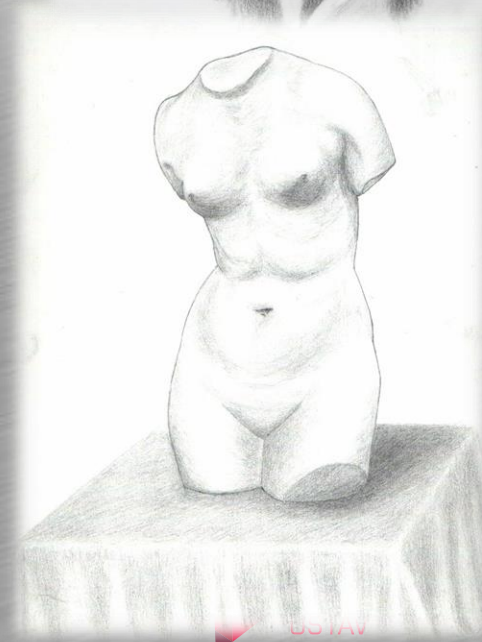
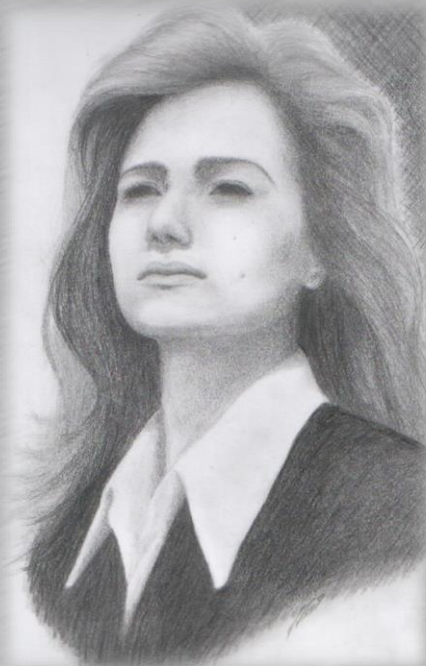
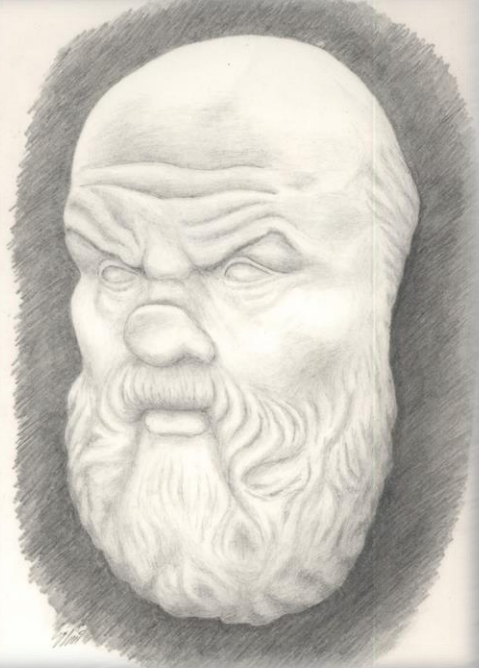


Master's Degree project

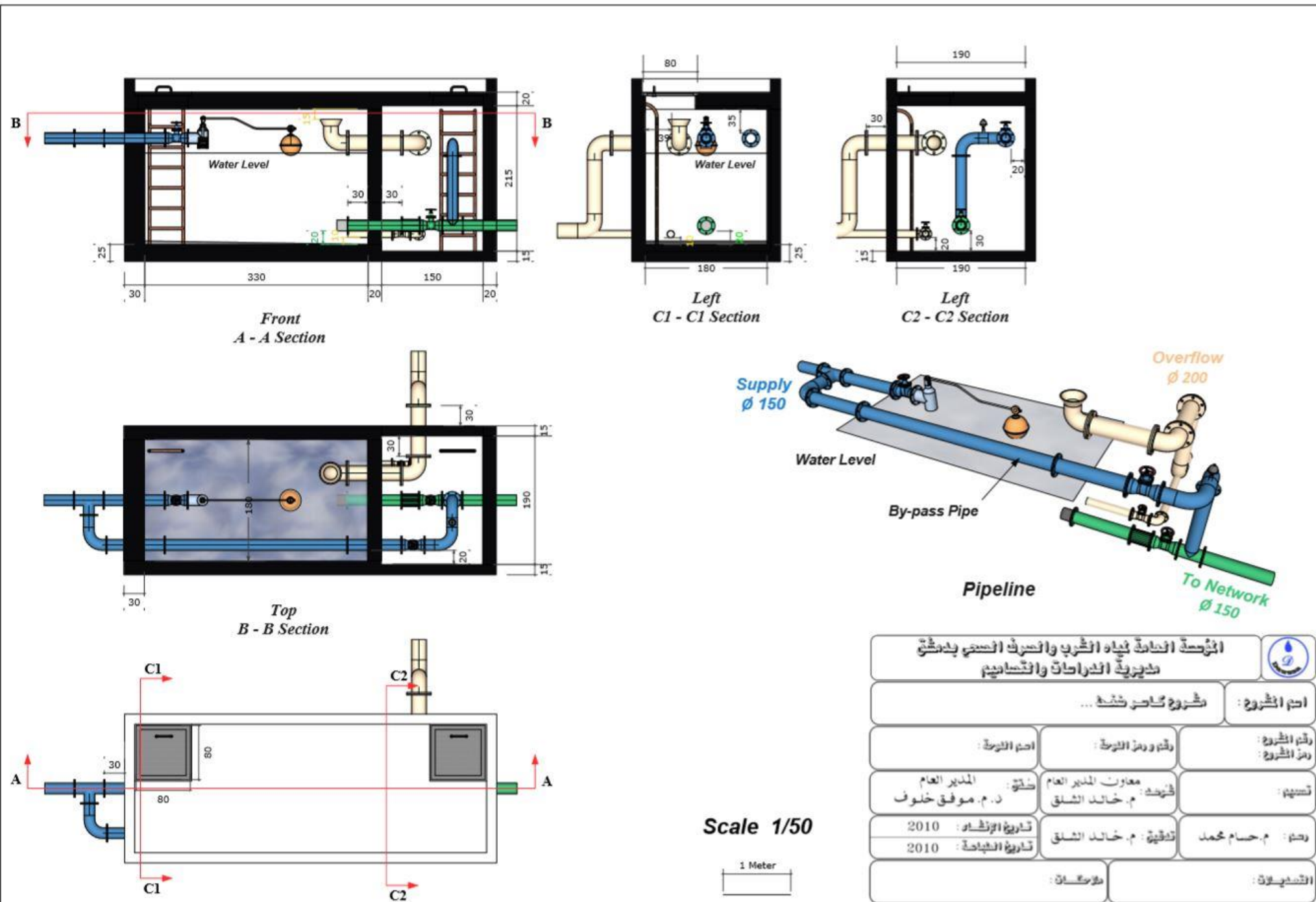
An autoclave device with supporting automated mechanisms for safe treatment of medical waste



Main Hoppy



Professional work

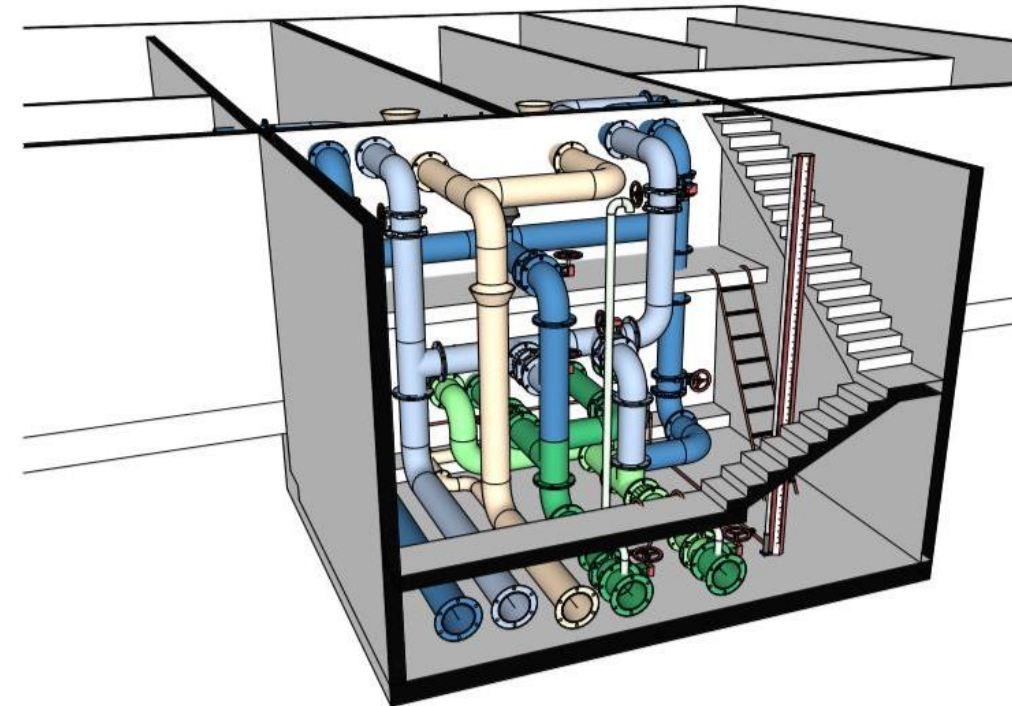
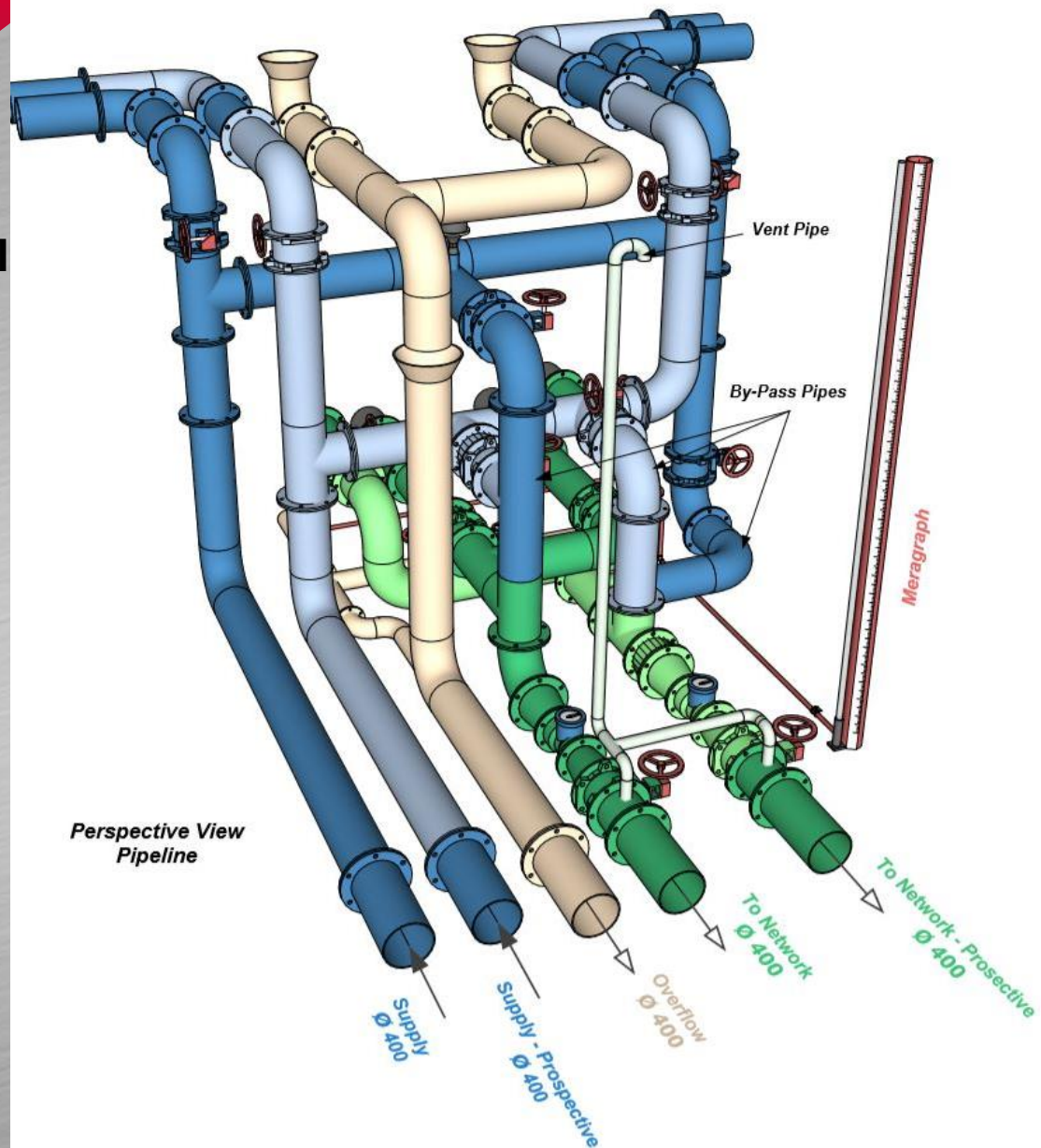


المؤسسة العامة لبياه الشرب والنسبي بدشتو مديرية الدراجات والتساميم			
اسم المشروع : مشروع كاسر شفة ...			
رقم المشروع : رمز المشروع :	رقم ورمز التربة :	اسم التربة :	
تصميم :	معاروف المدير العام : م. خالد الشلق	شقوف : د. م. موفق خروف	
رسم : م. حسام محمد	تدقيق : م. خالد الشلق	تاريخ الإنشاء : 2010 تاريخ التبيسة : 2010	
التسهيلات :		ملاحظات :	

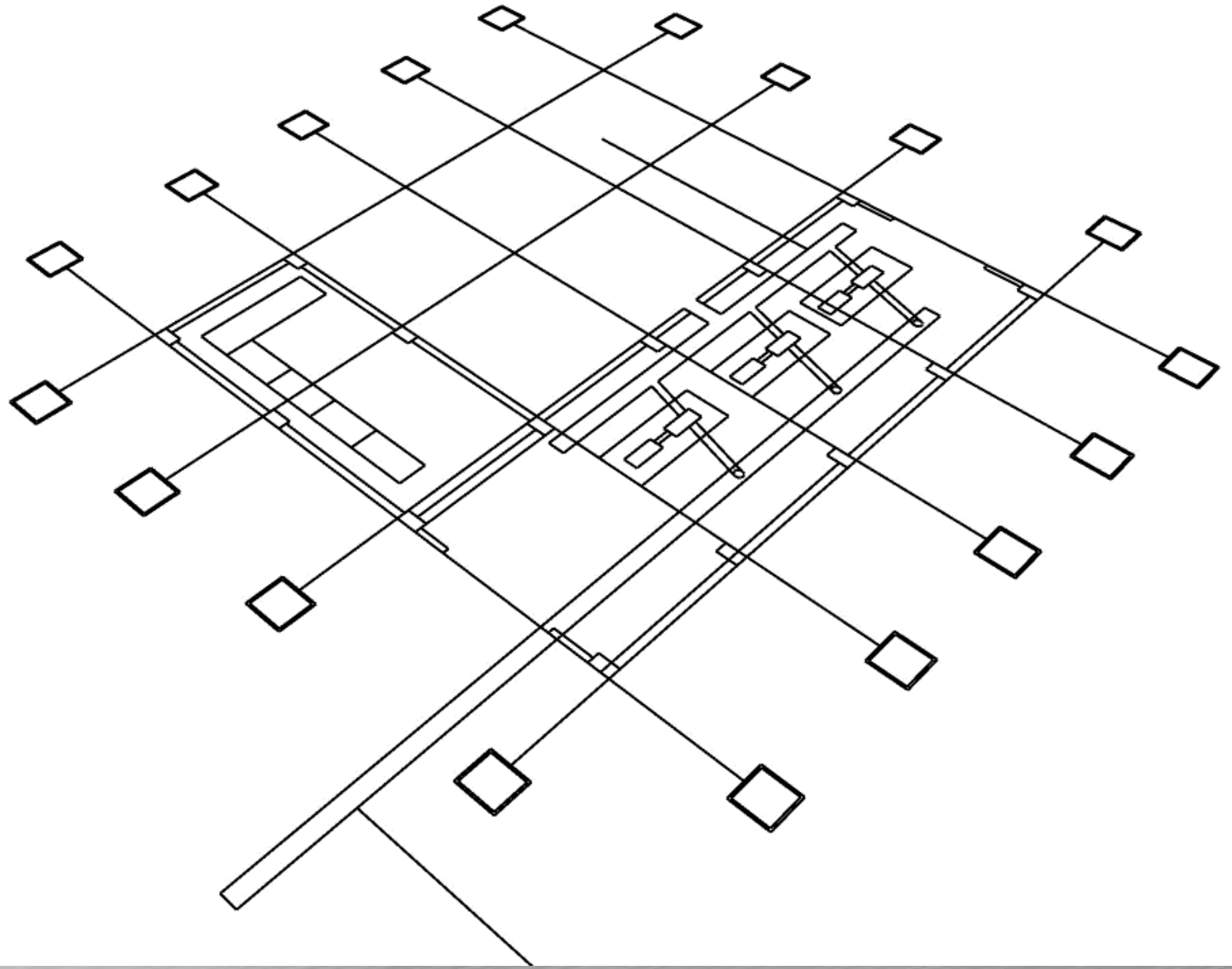
Scale 1/50



Professional work



SketchUp



In the Czech Republic



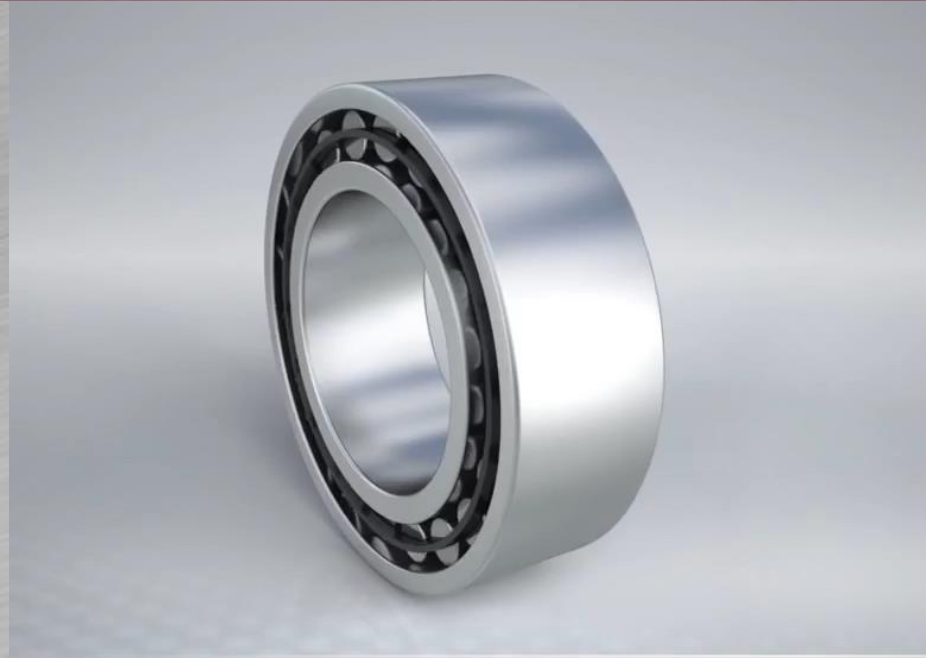
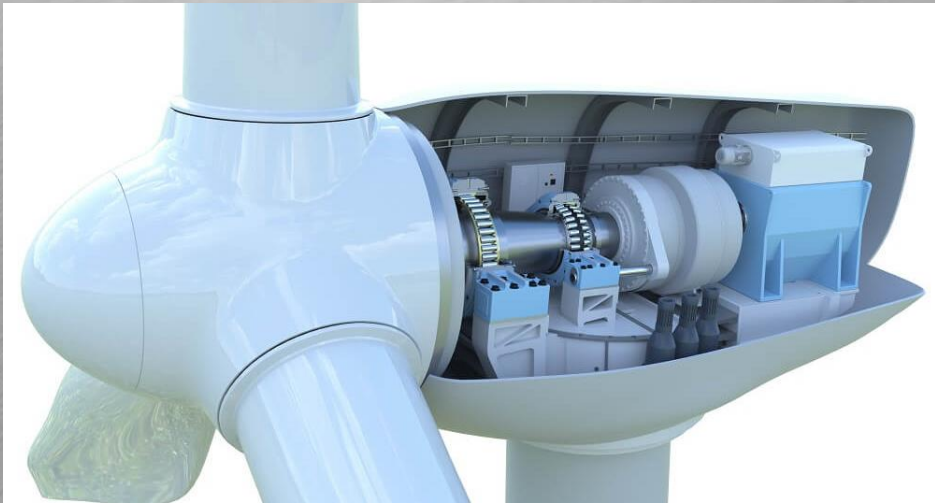
Research and development of devices for advanced active diagnostics of toroidal bearings

Supervisor: **Doc. Ing. Pavel Mazal, CSc.**

Specialist: **Ing. LÍbor Nohál, Ph.D. (ZKL)**

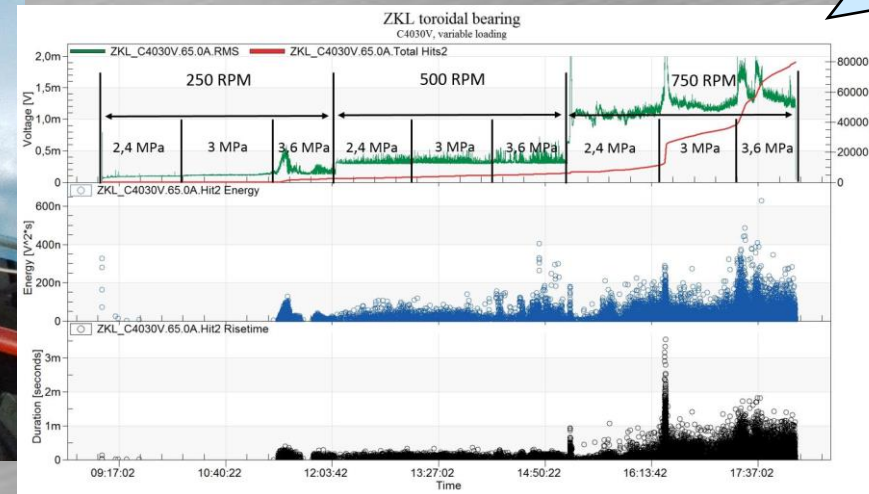
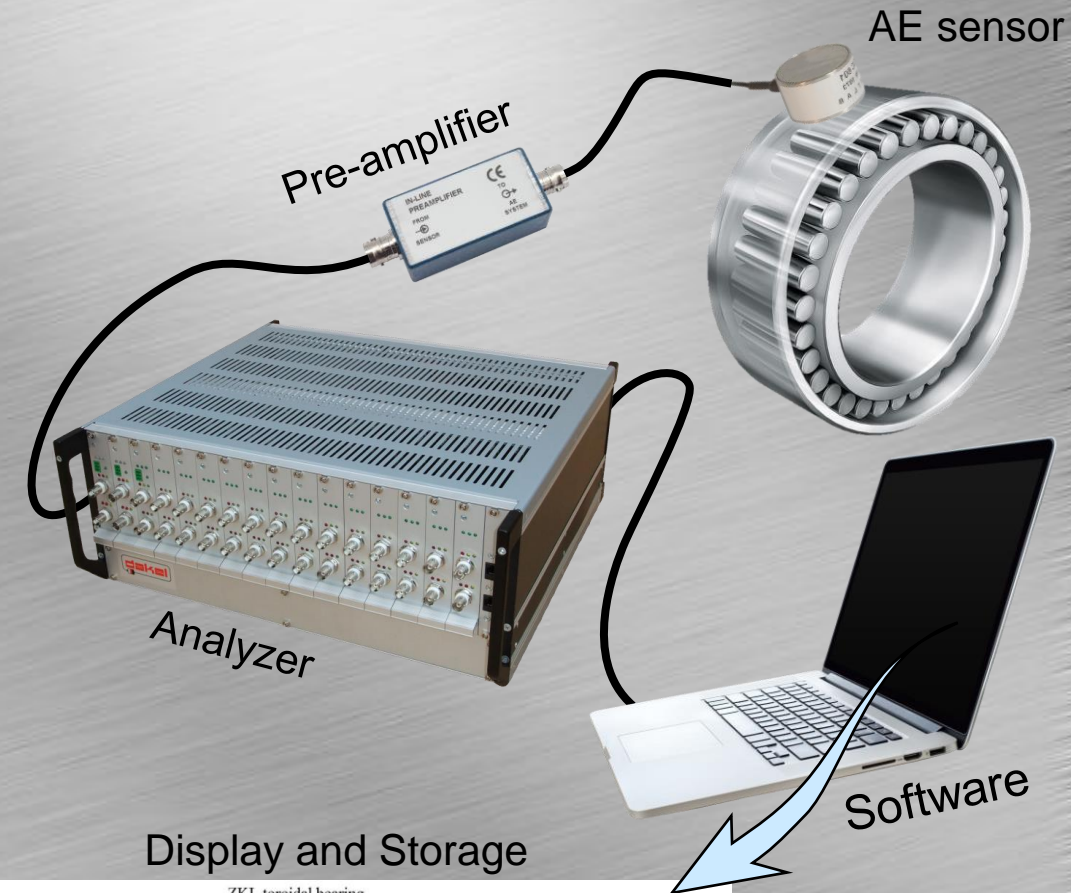
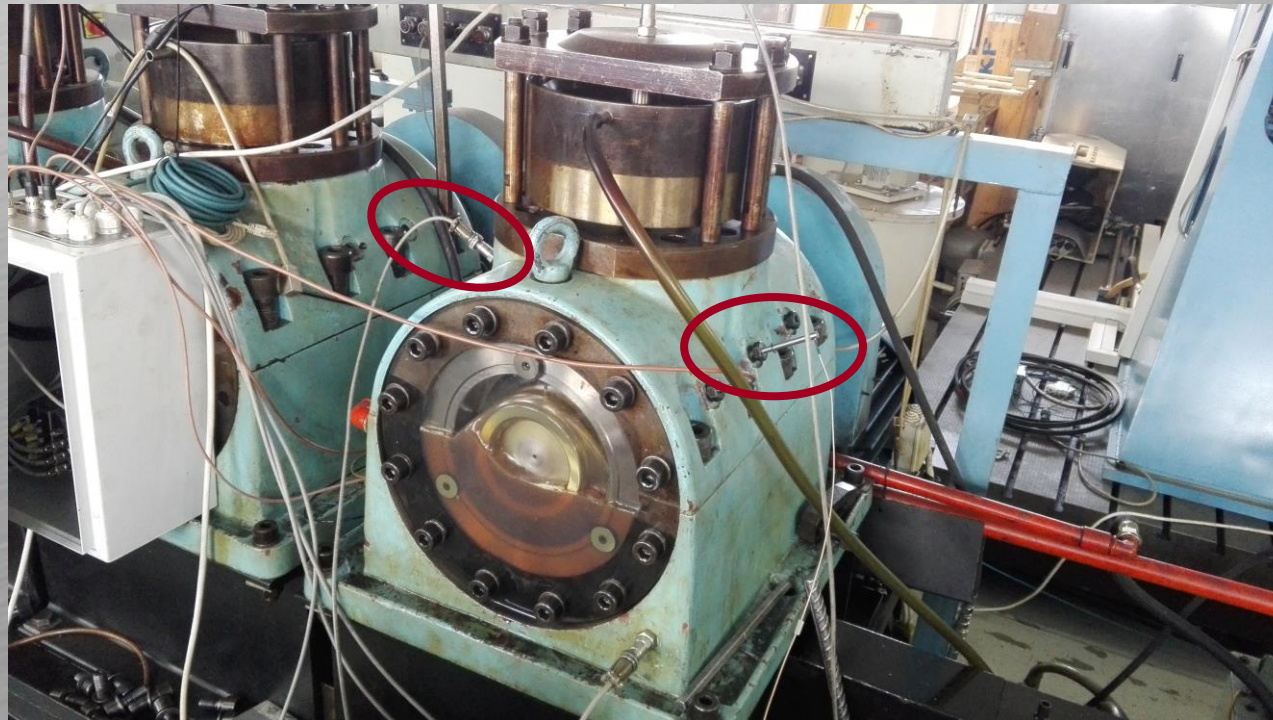
The aim is to propose monitoring procedures for active diagnostics of the **functionality** and the **conditions** of special bearings (Toroidal Bearing).

This research work is focused on **active diagnostics** of toroidal bearings, with application especially in the fields of wind turbines and continuous steel casting machines.



MIT TRIO “Research and development of toroidal bearings with a full number of rolling elements”
(4/2017 – 12/2020)

First measurement of toroidal bearings using acoustic emission technique in ZKL company



Subjects to study during
the first two years



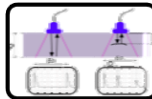
English for Doctoral Degree Study (9AJ)



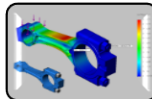
Methodologies of Scientific Work (9MOP-A)



Research Project and Its Management (9VPR)



Nondestructive Evaluation and Quality Control (9NTK)



FEM in Engineering Computations (9MKEP-A)

Subjects to teach next
semester

CAD (3CD)

Design and CAD (CKC)



DĚKUJI VÁM ZA POZORNOST

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ÚSTAV
KONSTRUOVÁNÍ

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