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ENTREPRENEURSHIP FOR ENGINEERS:
IMPLEMENTING TRAINING FOR STUDENTS,
INVOLVING INDUSTRIAL PARTNERS:
EXPERIENCE, BEST PRACTICES AND LESSONS
LEARNED FROM EIT

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EIT (DIGITAL): A EUROPEAN JOINT MASTER PROGRAM IN
ENGINEERING WITH “ENTREPRENEURSHIP ON TOP”

ENTREPRENEURSHIP-COURSES RUNNING IN A STREAM OF
ONE BY ONE IN PARALLEL TO ALL ENGINEERING COURSES
EACH COURSE ABOUT HALF YEAR TIME (6-9 ECTS)

GLOBAL INTAKE
ALL IN ENGLISH
ABOUT 300 STUDENTS PER YEAR



EXCEPT CLASSICAL LECTURING, LITERATURE ETC FOLLOWING
“INDUSTRIAL INVOLVEMENTS”...

- YEAR ONE: INTERVIEWING ENTREPRENEURS
- YEAR ONE AND A HALF: RUNNING SELF-DEFINED REAL PROJECTS INVOLVING CUSTOMERS/USERS, MENTORS, ADVISOR,
- YEAR TWO: PROJECTS GIVEN TO US BY INDUSTRY

A GRADUAL INCREASE OF INDUSTRY INVOLVEMENT



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EXAMPLES OF PROJECTS (SELF-DEFINED OR GIVEN BY INDUSTRY) THE LAST YEARS:

- AN AI-SOLUTION FOR BIKE-FITTING
- SMS-SERVICE FOR RESTAURANTS IN INDIA
- ICE-BREAKING-ACTIVITIES VIA ZOOM
- BETTER IOT-SOLUTIONS FOR DEAF PEOPLE
- NEW LOGISTICS SOLUTION FOR “THE LAST MILE” USING EXISTING OPEN API:S
- “CORONA-TRACKING-SOLUTION” FOR INDUSTRY/FACTORIES
- JOINT PLAY-LISTS WITH THE HELP OF AI AND SPOTIY
- SECURITY FOR THE CLOUD
- 3D-PRINTED PANIC-ATTACK-SOLUTION



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DUE TO CORONA NEARLY 100 % OF ALL THIS HAVE NOW BEEN
TRANSFORMED TO BEING DONE REMOTE

WORKS FAR BETTER THAN ONE MIGHT ASSUME

ONLY A BIT TRICKER TO GET ACCESS TO CERTAIN PEOPLE, LIKE
FOR INSTANCE RESTAURANT-OWNERS



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SOME EXPERIENCES/CONCLUSIONS 1:

- TEACHERS NEED TO KNOW/UNDERSTAND INDUSTRY
- IT IS EASIER THE SECOND TIME WITH THE SAME CORPORATION INVOLVED
- NOT HELPING STUDENTS TOO MUCH, NEITHER TOO LITTLE
- ADJUSTING EXPECTATIONS DEPENDING ON WHAT PROJECT IT IS (SOME TECH DIFFICULT, OTHER INDUSTRY DIFFICULT)
 - ACCEPTING A MOVING TARGET
- ACCEPTANCE FOR FAILING = LEARNING (WE DO NOT RUN CONSULTING, WE RUN LEARNING)
 - ITS ALL ABOUT MOTIVATION



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SOME EXPERIENCES/CONCLUSIONS 2:

- NEARLY ALL POSSIBLE INDUSTRY-PROBLEMS CAN BE USED FOR LEARNING-PURPOSE
- AS A TEACHER ONE CAN NOT BE TOO STUCK WITH THE “OVERALL TEACHING-GOALS”
 - IT OFTEN BECOMES RATHER TEACHER-INTENSE
- AS A TEACHER A GOOD CONNECTION TO STUDENTS, AS WELL AS INDUSTRY, IS MORE OR LESS CRUCIAL
- AS A TEACHER ONE HAS TO ACCEPT A CERTAIN DEGREE OF “GO WITH THE FLOW” AND NOT HAVING TOO MUCH OPINION ON EXACTLY WHAT IN DETAIL STUDENTS SHALL LEARN



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SOME EXPERIENCES/CONCLUSIONS 3:

- REMEMBER: IT IS ABOUT LEARNING HOW TO DO PRACTICAL WORK
- SINGLES STUDENTS GET DIFFERENT LEARNING-LESSONS, BUT THE OVERALL TARGET “TO LEARN HOW IT IS TO WORK IN INDUSTRY” CAN STILL BE FULFILLED
- I PERSONALLY THINK IN THIS WAY: THE SKY IS THE LIMIT FOR THE STUDENTS NOT ALL TEACHERS LOVE THIS WAY OF TEACHING
 - NOT ALL STUDENTS LOVE THIS WAY OF LEARNING
- TO A LOT OF STUDENTS IT TAKES SOME TIME LEARNING WHAT IT MEANS HAVING “THEM” IN THE FRONT SEAT



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THANK YOU FOR LISTENING

WWW.DISRUPTIVEEDUCATION.COM IS SOMETHING I
MENTIONED DURING THE PRESENTATION THAT YOU MIGHT
FIND USE OF.

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