

CAD/ CAM Module

Content:

Learning to work on 5-axis CNC milling machines DMU 50 with Heidenhain ITNC 530 using SOLIDWORKS 2018 / SOLID-CAM 2017

Applying CAD/CAM solutions for complex tasks

Understanding the function and dealing with a post-processor

Describing tilted operations and explaining I-Machining

Getting to know determinates of 3D processing (2.5 D-milling)

Duration:

2 weeks at college

Level:

Advanced

Assessment:

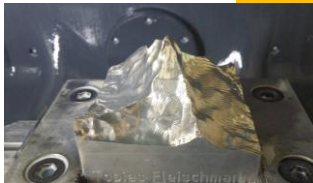
CAD program with simulation

Participants:

6 European students + 6 German students

Responsible teachers:

Gerhard Hofmann
Matthias Weickl



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Modules:

CAD/CAM:

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Electro-Pneumatics

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RAISE VET

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System Integration

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**Metal engineering/ Electrics
Modules**



Engineering Mobility In Europe

RAISE VET – Sustainability – Solar technology Module

Content:

Raising awareness of sustainable behavior towards our environment.

Identifying renewable energy sources, such as wind, water and mainly solar technology.

Being aware of local food items and creating a climate breakfast-

Carrying out current and voltage measurements with a solar energy kit to create a characteristic curve with its maximum power point and compare provided examples.



Duration:

1 week virtual module
2 weeks at college

Level:

Beginners

Assessment:

Presentation of milestones and final product beach grill

Participants:

8 international students & 4 German students

Responsible teachers:

Cornelia Lotter
Peter Schreyer
Elke Höhnberg



Electro-Pneumatics Module

Content:

Development of electropneumatic circuits

Connecting pneumatic and electrical circuits by using industrial components

Working in different companies in an industrial environment.

Duration:

1 week at college,
2 weeks at companies

Level:

Beginner

Assessment:

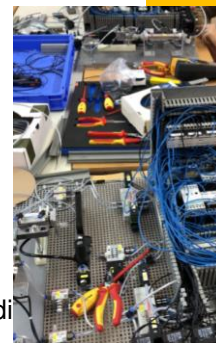
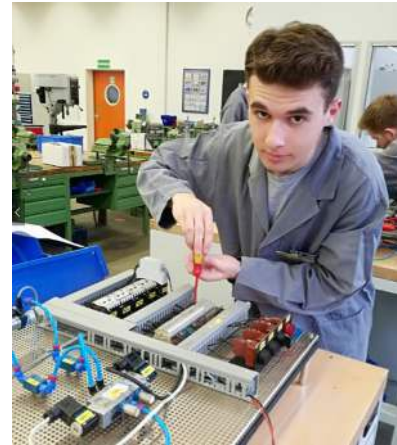
paper & pencil test,
skills demonstration with technical di

Participants:

8 European students + 8 German students

Responsible teachers:

Rudolf Michalenko
Andreas Hertle
Malte Michaelis



System Integration Module

Content :

Integration of systems in supply chains with focus on the Internet of Things

Cobots

Testing machines

Datatransfer by barcodes, qr-codes, RFID, BYOD SPC, VR / AR

Automated measuring on CNC-machines

Duration:

2 weeks at college

Level:

High performer
(End of second year/ Beginning of third year)

Participants:

12 European students + 6 German students

Responsible teachers:

Andreas Lindner

