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REPORT

Project Name: **“Europejskie staże lekarstwem na bezrobocie wśród młodych techników”**

Reference No.: **2014-1-PL01-KA102-001680**

Duration: **2 weeks/ March /2015**



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Introduction

euroMind, as an International training consultancy settled in Seville (Andalusia, Spain), mediated practical training at **Salesianos Trinidad School** for a group of students from **Zespół Szkół Technicznych w Cieszynie** who participated in the project delivered within the framework of the Erasmus + Programme of the European Commission.

18 Polish trainees were obtaining experience, broadening their professional knowledge and improving their skills for **2 weeks in March 2015** during practical training on **CNC Course**.

This report serves to describe the organization and realization of the project and more importantly, to introduce the trainees of this project, their work and cultural experience they gained during their stay in Spain.



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Project Management

Mobility Project Preparation

euroMind project manager will make sure that your organization is provided with all the necessary documentation for the successful submission of your project application.

- On-going communication with the Promoter of the project
- Preparatory visit to plan and prepare the project application
- Letter of Intent
- Partnership Agreements with local companies and organizations to strengthen your project application
- Detailed description of the partner vocational school and trainees' tasks

Induction

- **Pre-arrival guide** - before the arrival of your trainees in Spain, euroMind will provide them with the pre-arrival guide, including useful information on Seville, local transport & social life, emergency numbers, etc.
- **Skype interview** – in order to get to know the trainees and familiarize them with the training programme euroMind mentor delivers individual interviews via Skype.
- **Welcome session** - presentation of the euroMind team, project schedule, accommodation, ground rules and dissemination strategy options.
- **Practical walk around Cerro del Aguila** - banks, mail box, euroMind office, sport centre, supermarkets, bus station etc.



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Duration, Dates, Trainees

- 2 weeks
- 08 March – 22 March, 2015
- Sending Institution: Zespół Szkół Technicznych w Cieszynie

Trainees' names:

1. Sebastian Bizek
2. Mateusz Byczyński
3. Filip Dragon
4. Filip Dzikowski
5. Jakub Kaczmarzyk
6. Mateusz Kohut
7. Sylwester Kwaśny
8. Marek Legierski
9. Bartłomiej Ligocki
10. Marek Lipa
11. Robert Litwak
12. Zbigniew Małyjurek
13. Kacper Matuszek
14. Paweł Stuchlik
15. Jakub Szafarz
16. Bartłomiej Szturc
17. Konrad Nowak
18. Jakub Wróbel





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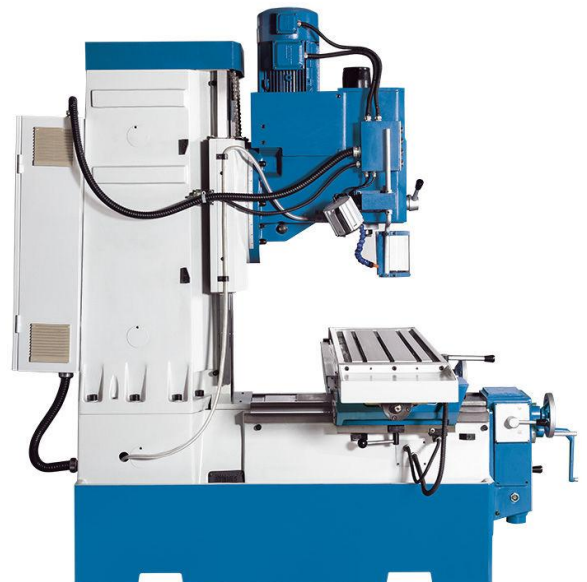


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Field of vocational education: CNC Course/ Mechatronics

Tasks:

- Familiarize with health and safety requirements in machining workshop
- Getting to know machining components
- Traditional machining of rotation parts
- Traditional lathe machine operation
- Traditional milling machine operation
- Montage of cut tool and raw material
- Fabrication of parts
- Control and verification of machining process
- Learning the basic of programming CNC
- Manual programming using a computer
- Programming CNC machines
- Design of 3D parts using a computer and CAD/CAM software
- Realize a machining process using a computer and CAD/CAM software
- Realize a simulation and verification of machining process using a computer and CAD/CAM software
- CNC lathe machine operation
- CNC milling machine operation





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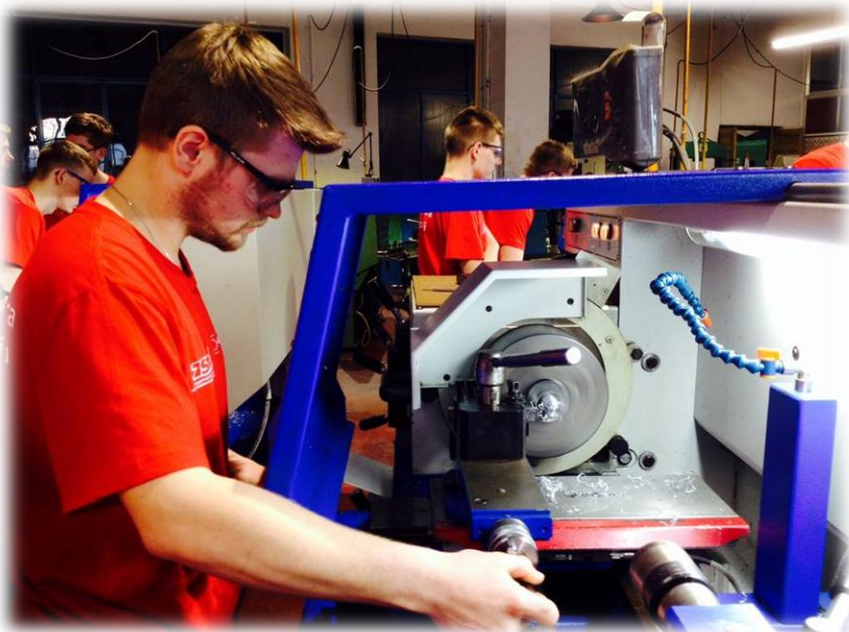
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Practical Training on CNC Day 1

The trainees had the opportunity to gain knowledge about CNC programming in **SALESIANOS TRINIDAD** vocational school. The training was led by **FRANCISCO JOSE RODRIGUEZ**.



Salesianos Santisima Trinidad . Sevilla





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Practical Training on CNC Day 2





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Practical Training on CNC Day 3





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Practical Training on CNC Day 4





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Practical Training on CNC Day 5





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Practical Training on CNC Day 6





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Practical Training on CNC Day 7

The screenshot displays the WinUnisoft CNC simulation interface. The main window shows a 3D model of a lathe part being machined. The software includes a menu bar (Proyecto, Ver, Simulación, Opciones, Ventana, Ayuda) and a toolbar with icons for various functions like 'Abrir', 'Gestor', 'Editor', 'Marcha', 'Pausa', 'Abortar', 'Sección', 'Medir', 'Ejes', 'Luz', 'Zoom(+)', 'Zoom(-)', 'Plano', 'Real', and 'Teórica'. On the right side, there is a control panel with parameters such as 'Estado', 'N' (N800), 'X' (24.00 mm), 'Y', 'Z' (3.00 mm), 'F' (0.1 mm/rev), 'S' (250 rev/min), 'T' (T2.2), 'M' (30 | 3 | 8), 'G' (G1), 'Tiempo' (000:20:13), 'Colisiones' (2), and 'Línea' (80). Below the main window, a G-code program is visible, starting with 'N0010 ; EJERCICIO 9001 CADra' and ending with 'N0280 GO Z2'. The program includes various G-code commands for tool selection, feed rate, spindle speed, and tool offsets.

```
N0010 ; EJERCICIO 9001 CADra
N0020 G71 G90 G95 G96 ; mm - absolut - mm/rev - VC
N0030 GO G54
N0040 F0.1 S250 T2 D2
N0050 M08 M03
N0060 X24 Z1.5
N0070 G1 X-1
N0080 Z2
N0090 GO X24
N0100 Z1
N0110 G1 X-1
N0120 Z2
N0130 GO X24
N0140 Z0.5
N0150 G1 X-1
N0160 Z2
N0170 GO X24
N0180 Z0
N0190 G1 X-1
N0200 Z2
N0210 GO X21.5
N0220 G1 Z-45
N0230 X22
N0240 GO Z2
N0250 X21
N0260 G1 Z-45
N0270 X22
N0280 GO Z2
```

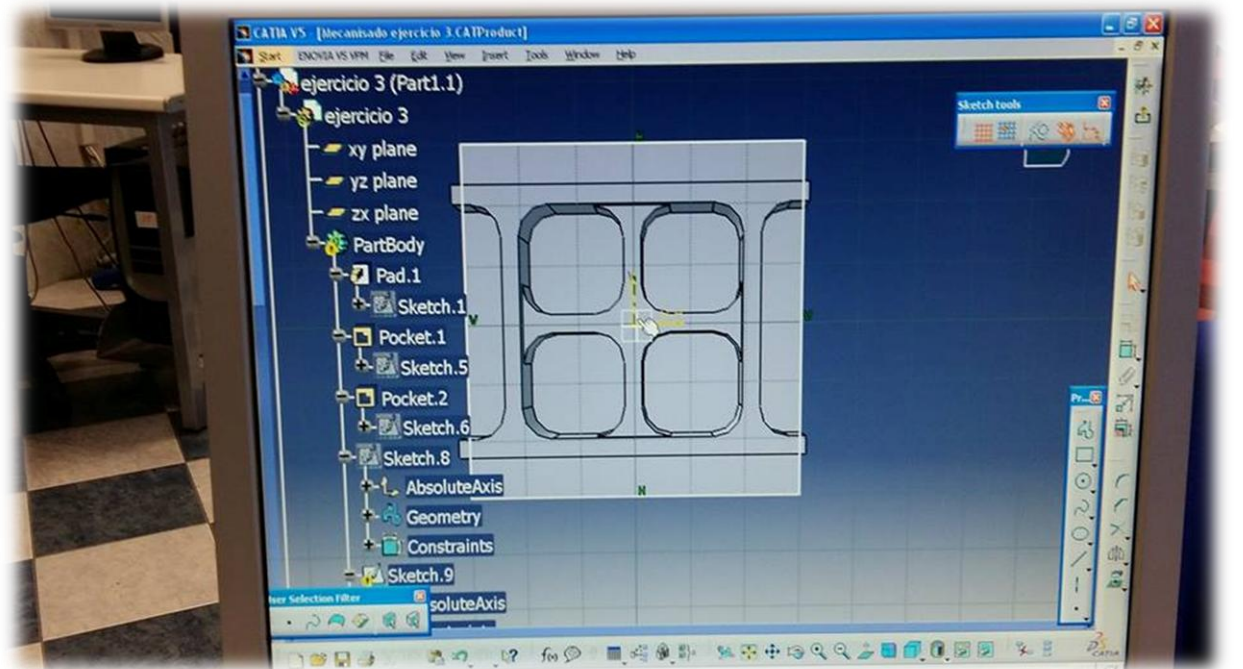
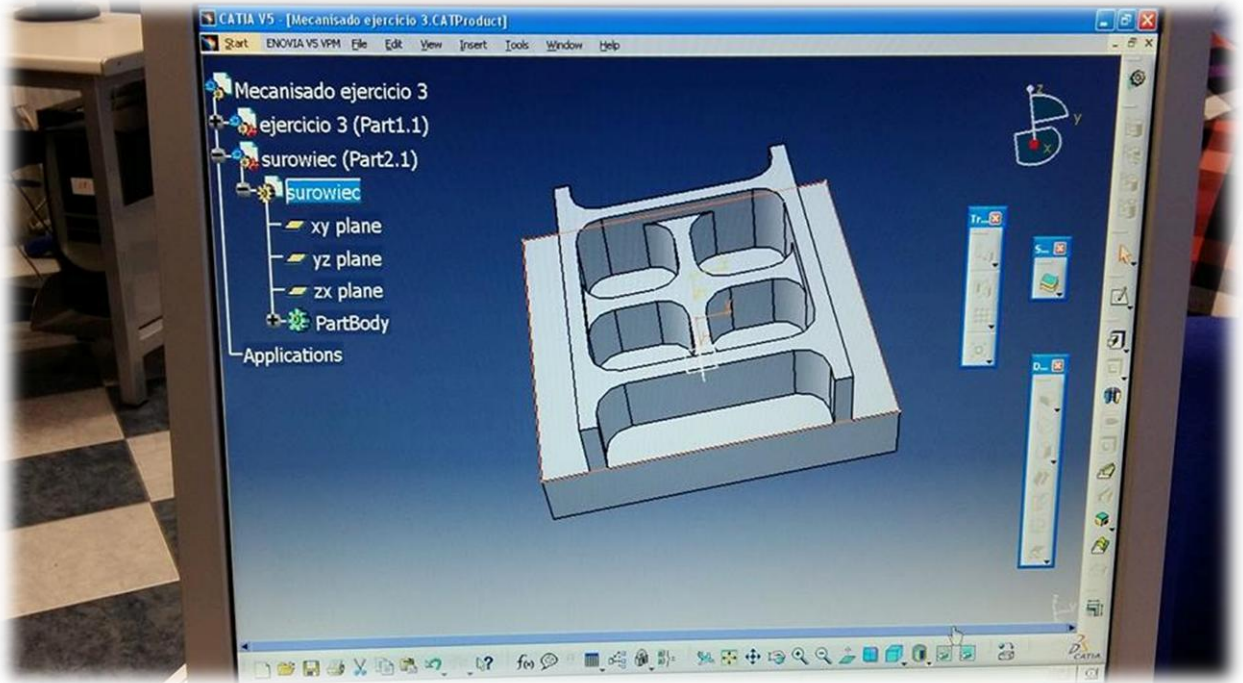



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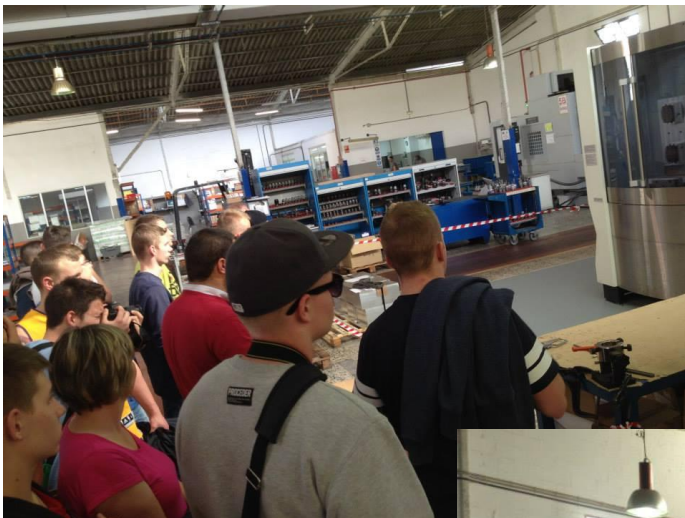
Practical Training on CNC Day 8





Practical Training on CNC Day 9 – Observatory Visit to Sevilla Control

Since 2003, Sevilla Control has acquired six companies with solid careers in the field of technology and aeronautical developments. More than 500 professional and 40.000m² of facilities located strategically, with a registered capital reaching 3 million. This is the foundation on which the the Air Control Group Sevilla which has allowed it to pursue industry-leading, highly competitive and growing international projects. Sevilla Control company works on diverse aspects of technology: design and manufacture of tools and aeronautic components, assembly of small and big components, manufacture of electric material. The company's biggest contractor is Airbus, Boeing to a lesser extent.





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Practical Training on CNC Day 10





Socio-Cultural Activities

TRIP TO CÁDIZ

The oldest continuously inhabited city situated in southwestern Spain and a typical Andalusian city with a wealth of attractive vistas and well-preserved historical landmarks. Its Old Town is commonly known for its various antique quarters (*barrrios*) and large squares (*plazas*) to chill out. While the Old City's street plan consists of narrow winding alleys connecting large plazas, newer areas of Cadiz typically have wide avenues and more modern buildings. There is also the harbour, the beach and the sea which certainly give to the trainees a chance to experience a proper Spanish day !





Socio-Cultural Activities

TRIP TO GIBRALTAR

Gibraltar is a British Overseas Territory located on the southern end of the Iberian Peninsula at the entrance of the Mediterranean. This is an amazing place with an important history and impressive views. Students from Cieszyn visited St Michael's Cave, an impressive natural grotto used by the neolithic inhabitants of the Rock, and a system of tunnels dug during the Great Siege which acted as a defence system – Siege Tunnel, and also the monument to the Polish General Sikorski and they could see the fauna and the flora of Gibraltar.





Socio-Cultural Activities

SEVILLE TOUR

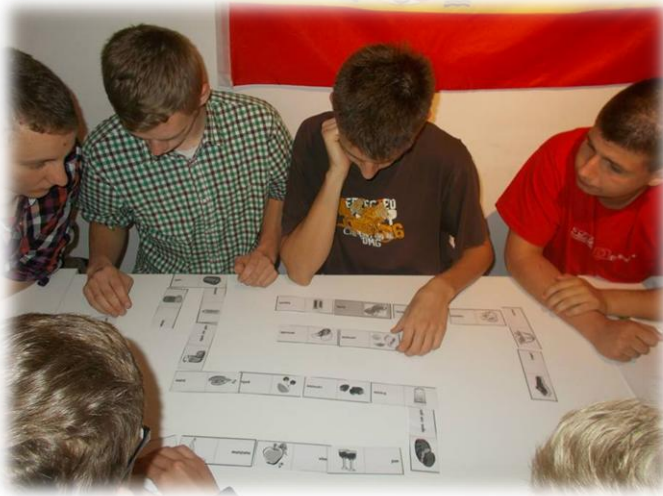
Seville is Spain's beautiful city according to most. There is an amazing list of sights worth to visit. Seville is a colorful and vivid city, that can be distinguished by a mixture of Roman reminiscences and Moorish traditions. During Seville tour the participants is shown many Spanish symbols and marvelous monuments, such as The Cathedral of Saint Mary of the See, The Royal Tobacco Factory, General Archive of the Indies, Plaza España, (the Spain Square) in Maria Luisa Park and Torre del Oro (Gold Tower).





Spanish Course

The group was given very intensive Spanish lessons with **Yasmin**, their Spanish teacher. Yasmin's teaching methods were very effective as she made learning fun through playing games and creating an enjoyable atmosphere in the class. Our Spanish classes can be described by means of 2 words: dynamic and practical! We use an interactive method of teaching based on learning by practicing. That means that grammar is covered as much as possible by using practical situations, so speaking and actively using the language is central. After 15 hours of hard learning the students had written an exam.





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Project Evaluation

According to the feedback from the trainees and their vocational training tutors, we can claim that the project was excellent and met expectations from all the participating parties. euroMind team did their best to ensure the communication among the sending institution and receiving organization at every stage of the project, which contributed to the fact that this project provided an enriching experience to all the participants. Moreover, EuroMind took good care of successful communication between vocational training tutor and trainees by mediating in this supervisor-trainee collaboration translating and solving language-connected complicated matters. What's more, the trainees had a chance to see the way of working in Spain, get to know a lot of useful information, gain new professional experience to be implied in their job back home.

To make sure that the trainees obtained the promised work experience, euroMind provided them with the on-going tutoring & monitoring service. Monitoring was done on regular basis in their work placement evaluating their work performance and their achievements.

To validate the acquired skills, the trainees, at the end of their stay, received a complete proof of their participation in the project by means of several methods of recognition:

- Work Placement Certificate
- Europass Mobility Certificate
- Spanish Course Certificate
- euroMind Certificate



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Conclusion

euroMind team did their best in order to deliver the best professional and cultural experience to the trainees of the project being always ready to help, give advice and solve any problems or doubts 24/7.

The trainees were fully satisfied with their training. They gained very needed professional experience abroad which is highly appreciated and sometimes even specifically asked by today's employers.

We have no doubt that our trainees will use their new knowledge and experience at their current work in Poland or increase their chances at the labour market and dazzle their future potential employers.

Moreover, the trainees learnt the basics of the Spanish language, were able to work in an multi-cultural environment and proved themselves with the ability to work individually as well as in a team.

euroMind team was extremely satisfied with the trainees' involvement in the project and personal interest in whatever they participated in.

This project was very successful and we hope to realize other successful projects **Zespół Szkół Technicznych w Cieszynie** in the future.

March 22, 2015, Seville

Carlos Hoyo de la Torre

Director