



Project Final Report

Szkoła Nowoczesnych Technologii

2020-1-PL01- KA102-079389

BETWEEN

The Sending Organization

Zespół Szkół Zawodowych im. Marii Skłodowskiej-Curie w Płocku

The Intermediary Organisation

Euromind Projects SL

AND

The Host Organization

Dronetools S.L.

Training Programme Dates:

20-06-2022 - 01-07-2022





EUROMIND AS PROJECT PARTNER

1. Profile Description

euroMind is an international training consultancy and VET provider with headquarters in Seville and Úbeda in Andalusia (Spain).

euroMind as a training provider delivers vocational education trainings, general and job-related language courses, VET training-related workshops and study visits, workshops on culture, lifestyle and customs of EU countries as well as classes on skilful and effective job search in the EU.

It promotes and delivers trainings for teaching staff and secures work placements and exchange activities for VET students and graduates enabling at the same time young people and professionals to make the most out of opportunities of competencies & skills development offered by European educational programmes.

euroMind in partnership with Andalusian vocational colleges and companies delivers school based vocational trainings for students of different educational fields, such as: CNC, automation, electricity, renewable energy sources, plumbing, industrial and graphic design, 3D design, ICT, electronics, administration.

euroMind as a VET provider works in partnership with a wide array of private companies in almost all the sectors, such as tourism, business administration, medicine, fashion, hairdressing, health & beauty, physiotherapy, marketing, media, advertising, public relations, tourism, IT, social work, logistics, nursing, construction, geodesy, analytics etc.

2. euroMind experience and expertise

The euroMind possesses extensive experience and expertise in the field of European mobility projects preparation and management which allows it to assist Spanish vocational colleges and governmental institutions with the preparation of project applications, finding trustworthy and competent host partners in Europe for their project participants, teaching and HR staff.

Over last 3 year euroMind has participated as a receiving – host partner in over 60 mobility projects with the participation of a total of 1800 persons: students from technical and vocational schools, university students, graduates, unemployed and teaching and HR staff. These projects involved partners from Poland, Great Britain, Czech Republic, Slovakia, Germany, Portugal, Turkey, Croatia, Italy, Greece, Bulgaria, Lithuania, Latvia, etc. The full list of projects including numbers and titles is available on the euroMind website: www.euromind.es in the Gallery.

euroMind is also responsible for the participants' linguistic, socio-cultural and practical preparation and also, if necessary, for the project administration and management issues.





euroMind has been participating as a sending and host organization in more than 100 projects including Leonardo Partnership, Erasmus Placement and Leonardo Mobility – PLM, VETpro and IVT and Erasmus + projects.

euroMind monitors that all the required documentation is prepared and submitted on time at every stage of the project lifecycle and makes sure that all the partners carry out their responsibilities.

euroMind participates in seminars organised by ECVET team regarding the use of system of transfer of competences and skills in the vocational training. euroMind experts have extensive knowledge in the field, hence they are able to train their partners on how to make use of this system in their projects.

euroMind has an impressive network of partner companies from different economic sectors. More than 800 entities both private and public cooperate with euroMind in Ubeda, Seville and Malaga. This extensive activity is a perfect guarantee that all the students received by euroMind will be successfully placed.





PROJECT PARTICIPANTS' LIST

Participants' Name	Placement Sector
ADAM ARSZYŃSKI	Electric Programmer (Drones)
PATRYK BIERNACKI	Electric Programmer (Drones)
KAJETAN BIELSKI	Electric Programmer (Drones)
PATRYK CHISZBERG	Electric Programmer (Drones)
SZYMON DANISZEWSKI	Electric Programmer (Drones)
ŁUKASZ GARLICKI	Electric Programmer (Drones)
SZYMON GOLATOWSKI	Electric Programmer (Drones)
ALEKSANDER GOMOŁA	Electric Programmer (Drones)
PATRYK GRAF	Electric Programmer (Drones)
KACPER JAKUBOWSKI	Electric Programmer (Drones)
SZYMON KLIMCZEWSKI	Electric Programmer (Drones)
JAKUB LINOWSKI	Electric Programmer (Drones)
FILIP ŁUKIAŃSKI	Electric Programmer (Drones)
PAWEŁ MAJCHRZAK	Electric Programmer (Drones)
KUBA NOWICKI	Electric Programmer (Drones)
DOMINIK WOJDA	Electric Programmer (Drones)
KRZYSZTOF ŻEBROWSKI	Electric Programmer (Drones)
SZYMON DAWID ŻOŁNOWSKI	Electric Programmer (Drones)







TRAINING PROGRAMME

Host Organization: Dronetools S.L.

Tutor's name: Jorge Juan Gutiérrez Riego/Octavio Perez Lagares

1. Description of the host organization

Dronetools, S.L. is a small company which specializes in manufacturing drones, also known as Remotely Piloted Aircraft Systems, or RPAs. It was founded in 2012 with the aim of providing aerial solutions to their customers' needs while offering the highest quality, cooperation, ethics and innovation. They want to be pioneers in the RPA manufacturing industry by guaranteeing the satisfaction of their customers through the quality of their products. In their workshops, they mold carbon fiber, aluminium and plastic with the latest technology to create each drone while adhering to the standards of the aeronautical industry. They design the RPAs specifically for each client, which involves; using 3D parametric software, manufacturing the prototype, and doing all the necessary flight tests. The company is headquartered in Gelves, a small town just 15 minutes from Seville (Calle Gabriel Lupiañez Gely), in the CITEC Industrial Estate. Jorge Juan Gutiérrez Riego is the co-founder and technical director of the company and he has a team of professionals specialising in industrial mechanization, microelectronics, robotics, design and control system. The owner of Dronetools is Nicolás Zapata.

2. Description of the training programme and objectives

The training program is The training program is divided into 3 stages in accordance with the length of the trainees stay in the host company

1st Stage

- Getting to know the company tutor and the team
- Getting familiar with the company structure, premises, rules, health and safety procedures
- Getting familiar with the company affairs and projects
- Getting familiar with the extent of the company's business activity: local, regional, national or international
- Providing a brief overview of the tasks and projects the trainee will get involved in
- Getting familiar with the work stand
- Getting to know the programs and applications used by the company
- Getting to know the system of working, timetables and work culture
- Starting to perform job-related tasks gradually

After the internship

- Completing training diaries regularly, in particular, taking notes of the tasks delivered and the progress made





- Taking part in Spanish language activities with the aim of breaking the language barrier and improving communication as well as expanding the sector related vocabulary
- Taking part in dissemination activities, the aim of which is to promote the internship on a local, regional and national level (preparation of PowerPoint presentations, Facebook fan page, or a short movie depending on preferences)
- Cultural activities involving getting to know Spanish customs, culture, and language

2nd Stage

- The trainee will gradually be introduced to more demanding and more complex tasks that require more responsibility. The trainee will be developing their professional skills further as well as slowly taking up new tasks
- Performing job-related tasks assigned to the trainee depending on a daily workload, customers' needs, new projects and tasks coming in

After the internship

- Completing training diaries regularly taking notes of the tasks delivered and the progress made
- Taking part in dissemination activities, the aim of which is to promote the internship on a local, regional and national level (preparation of PowerPoint presentations, Facebook fan page, or a short movie depending on preferences)

3rd Stage

- -The trainee will be given more responsibilities and tasks depending on their development and performance review. During the last week of his or her work placement, the trainee should be able to carry out all the tasks envisaged for him or her in the program.
- Performing job-related tasks assigned to the trainee depending on a daily workload, customers' needs, new projects and tasks coming in

After the internship

- Completing training diaries regularly taking notes of the tasks delivered and the progress made
- Taking part in dissemination activities, the aim of which is to promote the internship on a local, regional and national level (preparation of PowerPoint presentations, Facebook fan page, or a short movie depending on preferences)
- Roundup: sharing experiences, presentation of dissemination activities and handing out certificates

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- getting familiar with the extent of the companys business activity: local, regional, national or international
- providing a brief overview of the tasks and projects the trainee will get involved in
- getting familiar with the work stand
- getting to know the programs and applications used by the company
- getting to know the system of working, timetables and work culture
- starting to perform job-related tasks gradually

After the internship:

- completing training diaries regularly, in particular, taking notes of the tasks delivered and the progress made
- taking part in Spanish language activities with the aim of breaking the language barrier and improving communication as well as expanding the sector-related vocabulary
- taking part in dissemination activities, the aim of which is to promote the internship on a local, regional and national level (preparation of Power Point presentations, Facebook fan page, or a short movie depending on preferences)
- cultural activities involving getting to know Spanish customs, culture and language

2. Main responsibilities & tasks carried out during the training

- Preventing potential accidents that may happen during the assembly
- Welding process with tin before putting it into practice on the assembly
- Building a drone from scratch
- Completing the drone
- Using Arduino with JAVA, from Eclipse and knowledge of API
- Creating a joystick to control the drone flight. Multimeter presentation on LCD screen
- Controlling a drone using different types of movements, flight modes, configuration, etc
- Testing the drone and connection of the transmitter to the receiver
- Calibrating the drone and outdoor flight





ADAM ARSZYŃSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

Staying in Spain was a completely new experience for me, as I had never traveled abroad before, also I did not know what to expect. Fortunately, I was positively surprised, because everything was really well taken care of and people turned out to be really nice, unfortunately, practically no one who lived in Spain on a daily basis could speak English. Tourism is extremely well developed, with restaurants, chaises and souvenir stores and tourist sites everywhere, so there is undoubtedly plenty to explore in Seville. There were no big problems with the organization of internships, accommodation and recreational activities. I think it was worth signing up for this trip, as I had a really good time and learned new things.









PATRYK BIERNACKI

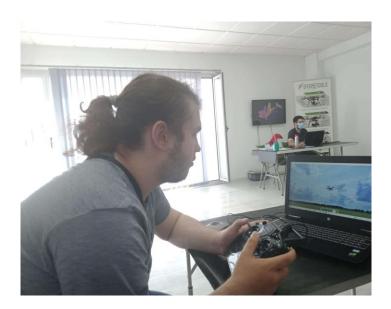
Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

With this internship I am able to learn about drones and technology used in them which is interesting and a lot of fun too. Not only we learn about them we also gain practical skill in building them.









KAJETAN BIELSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The trip is a great experience for me. During the intership in DroneTools, I learn about the construction of drones and their priciples of operation. In free time, we visit monuments in Sevilla and visit other cities such as Cadiz. Thanks to this project, I can expand my practical and theoritical knowledge.









PATRYK CHISZBERG

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The practical classes in Spain were amazing. I met amazing people there and got more along with my classmates. This trip showed me how independent i can be. I learned a lot of thing related to my future job. At the start and the end of the trip we had got the opportunity to fly by plane for the first time in life (in my case) which was really exciting. During the interships we learned about building drones, and all the maintenance around them. In our free time I was able to visit 2 cities in Spain: Seville, Cádiz. Each city is unique and beautiful, I liked Cádiz the most, I just loved the ocean. Thanks to the POWER program I had occasion to improve my English speaking skills









SZYMON DANISZEWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The interships in Spain were amazing. I improved my contacts with people I had known before. I had opportunity to fly by plane for the first time. During the trips I was abke to visit 2 cities in Spain, Sevilla and Cádiz. During the itnership I learned a lot of abuot drones. Thanks to the Euromind program. I had the opportunity to improve my language and proffesional skills.





EuroMind Project SL | Erasmus+ Final Report





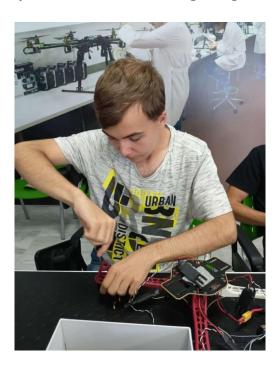
ŁUKASZ GARLICKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The entire trip is for me a pretty astounding experience. At practical classes in DroneTools we learn about the entire process of engineering drones, as well as all technical aspects of them, alongside the ability of flying, which I find really interesting and exciting. In free time, we are sightseeing many interesting objects across the Sevilla, alongside other cities such as Gelves and Cadiz. Overally, I find this kind of experience quite astonishing. I will be definitely looking forward next Euromind program. I'm really thankfull to Euromind for organising such an entertaining project.









SZYMON GOLATOWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

I really liked these practices. They were very interesting and exciting. I learned a lot about construction of drons. During this time, I improved my skills as an electrician. I had a great time.









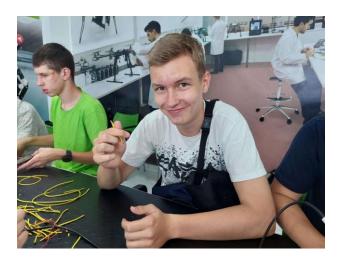
ALEKSANDER GOMOŁA

Tutor's final note

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Participant's opinion about his personal & professional development

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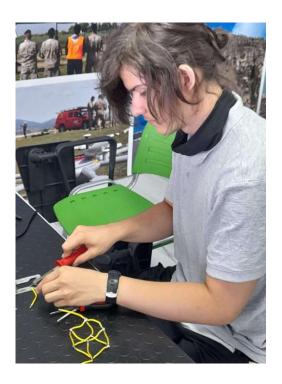
PATRYK GRAF

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

In first days I learned how to use a new program in which I learned new things for me. The internship was nice and the teacher shown us a lot of new things.









KACPER JAKUBOWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The whole Trip in Spain was amazing. At the first days we were meeting with group. Also, I had got better relations and improved my contact with my classmates. Such a trip helped me to become even more independent. In Spain I learned a lot of useful things related to my profession and not only. I had the opportunity to fly drone for the first time, which was a really interesting experience for me, and I'm sure I'm going to try more at home. I also learned, how some electronical devices in drones were made. I learned a lot about the culture there, how people live here, and how the attractions looks. By the way, I also learned some Spanish Language usage and improved my technical and normal english. During the trips, I had seencities in Spain: Seville, Gelves, and Cádiz. Each city is unique and beautiful, I liked Cádiz the most, the ocean, beaches and streets was really exciting. Thanks to the Euromind program, I had the opportunity to improve my language and professional skills.









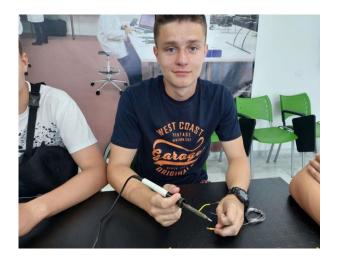
SZYMON KLIMCZEWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The internship in Spain was wonderful. We visited two beautiful cities there. Seville where we stayed and tried national dishes. And Cadiz where we had the opportunity to rest on the beach and swim in the ocean. During the internship at Dronetools, we could learn more about the principle of operation and construction of drones. We met many wonderful people who showed us the applications of the devices they produce.









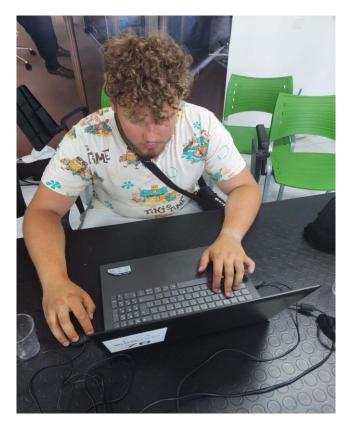
JAKUB LINOWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

Practice in Spain was great. I learned a lot about culture in Spain and about drones. Time here and people everywhere were amazing and helpful. We were visiting an Old Town in Sevilla, Old Town and a Beach in Cadiz. I liked Cadiz the most because it's a small port Town with small Streets beautiful buildings and an amazing atmosphere. Thanks to this program I improve my language and professional skills.









FILIP ŁUKIAŃSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

During my stay in Seville I met many nice people. I expanded my language skills. I had the pleasure to see the extraordinary wealth of the city's beautiful and historic architecture. I have seen the beauty of the Alcázar Palace, the Cathedral of Our Lady, Piazza di Spagna, the Royal Cigar Factory, the Golden Tower and Catedral Nueva. I also visited the city of Cadiz and La Caleta beach. During my internship at Dronetools, I improved my language skills and teamwork. I used a drone flight simulator, programs for its design and calibration. I gained theoretical knowledge about drone control and the importance of compass and accelerometer in them. I also trained wire soldering using tin older.









PAWEŁ MAJCHRZAK

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

The intership in Spain were very intresting and exciting. In practise I learned a lot about construction of drones. In our free time I met a lot of amazing people and improve my English.I learned also about culture in Spain. We have Been in Sevilla and on Beach in Cadiz. In My opinion Sevilla is very beautiful city and people here are very helpful even when they dont speak English they trying to help with translator. Thanks to this program I have The opportunity to visit Spain and improve my language and proffesional skills









KUBA NOWICKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

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DOMINIK WOJDA

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

My practise in Spain was amazing I met a lot of helpful people from here. We have been in Centre of Sevilla, Centre and Beach in Cadiz. in cadiz in free time we all were relaxing On the Beach and swimming in the ocean. I liked Sevilla the most because atmosphere here was great and people who I met was really kind. Thanks to this program I improve my electricians and personal skills.









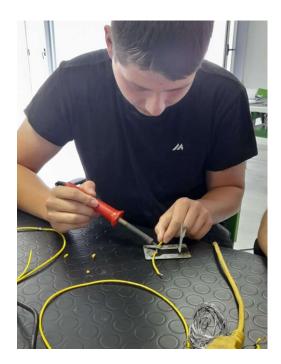
KRZYSZTOF ŻEBROWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

I can consider the internships in Spain successful. I was able to establish contacts with people I didn't know before. Thanks to these internships, I learned many interesting and necessary skills. Sevilla was fun to visit, it's a very nice city and the people are very helpful. Swimming in the ocean was a nice diversion and a form of relaxation. The plane flight was very stressful for me, but it allowed me to overcome it and the next flight will be calmer for me. Thank you for the opportunity to get to know the world, another culture and learn new skills.









SZYMON DAWID ŻOŁNOWSKI

Tutor's final note

6 (Excellent)

Participant's opinion about his personal & professional development

I learned a lot during my internships in Spain. The practice consisted of building from scratch and programming with the purpose of setting the drone. Additionally, I had the opportunity to improve my foreign language. It was a really great experience and I'd like to do it again.









PROJECT MANAGEMENT

1. Mobility Project Preparation & Induction

Before the arrival of your trainees in Spain, euroMind provided them with the pre-arrival guide, including useful information, local transport & social life, emergency numbers.

euroMind has also arranged Skype meeting with the participants in order to get to know them and to interview them.

After the Skype interview, euroMind created a Facebook group to which all the selected participants were invited, together with their Teachers. This way euroMind Coordinator had constant contact with the target group already before their arrival in Spain.

euroMind took responsibility for preparing Learning Agreements individually for each participant and made sure that all the parties involved signed all the necessary documents.

On the first day after the arrival, euroMind organized the welcome session during which the participants got to know the euroMind team, were reminded about the programme agenda, accommodation rules and dissemination strategy options.

Later on, the participants were taken for a walk around the neighborhood to get to know the area and find out where banks, mail box, workplace, supermarkets, bus station are.

2. Monitoring & Monitoring

In order to make sure that the objectives of the Learning Agreement were going to be achieved and that the participants would be fully integrated in the companies' work culture, the monitoring was delivered by all of the parties involved in the project.

euroMind assigned a Mentor for the group of participant who was responsible for the introduction of the participants to the host organisation. During the training the Mentor delivered monitoring visits to the host organisation in order to revise the tasks of the trainees, their progress as well learn from the first hand the level of satisfaction of both the participants and the training centre Tutor.

The Mentor in cooperation with the Tutor carried out the evaluations of the trainees in the middle and at the end of the training.

After obtaining the results of the half-way through evaluation, the Mentor met the participants to give them the results of this evaluation. The least favourable results were discussed with the





participants in private so that both the Mentor and the trainees had the comfort of sharing the information and exchanging the opinions and finding solutions to some problematic issues.

The Tutor from the host organisation was responsible for helping, informing and guiding and supervising the work done by the participants. The tutor had regular meetings with the participants in order to assess their progress during the training.

euroMind at the end of the programme during the goodbye session handed out evaluation sheets to the participants so that they could assess their stay in Spain, training programme, as well as the work of the euroMind.

euroMind was also available to the participants 24/7 in case of emergency.

3. Communication

EuroMind takes good care of successful communication between host organizations and trainees. Each evaluation of work is aimed at improving the quality of cooperation. Each party is thoroughly checked and assessed and the necessary improvements are introduced. Moreover, euroMind mediates in this tutor-trainee collaboration by translating and solving language-connected complicated matters.

4. Dissemination strategy

euroMind took active part in the process of preparing and dissemination results of the project together with the sending organisation and participants.

While the trainees were in Spain, euroMind involved them in a number of activities the aim of which was to make students monitor and collect all the information related to the progress of their work placements and stay in Spain. The materials produced by the participant would be then used as tools for disseminating results by the school in their country and by the partner in Spain.

The participants could work in groups or individually. On the first day they needed to decide on the form or forms of recording their professional experiences.

As a rule the whole group needed to create a Facebook fun page as it is an effective and quick means of accessing large numbers of people. What is more, it is a form that appeals to young people as they can share their experiences instantly and receive instant feedback, too. The fan page is always linked to the euroMind's Facebook fan page. The sending organisation was also asked to do the same thing.





This way the material produced by the trainees reached bigger audiences and was more effectively disseminated.

euroMind also disseminates the project at a local level. It organises language and cultural exchanges between the international trainees and students from local vocational colleges. During those meetings both Spanish and International students are involved in a number of activities the aim of which is to get to know each other, share experiences related to work experiences and in general their stay in Spain. The students also exchange information about their countries and cultures.

5. Certification

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

- Training Certificate
- Europass Mobility Certificate
- ECVET





CULTURAL & LINGUISTIC PREPARATION

Cultural activities, Andalusian cities & places visited during the programme

Walk around Seville city centre: Seville is the artistic, cultural, and financial capital of Andalusia in the southern region of Spain. The city is a historical masterpiece full of monuments, gardens and flamenco festivals. The city reflects the harmony between different Christian, **Jewish** and Muslim cultures and religions. As Seville is the capital and the largest city of the autonomous community of Andalusia, it is easy to get lost here, however thanks to the tour organised by euroMind's team, the trainees were able to admire the city safely and in a pleasant atmosphere. The euroMind coordinator helped the trainees understand the city from a historical and artistic point of view, but also gave them some shopping and eating tips. The group were shown the best places where they could go and grab something to eat, drink and have fun or just relax and hang out.







Stadium Tour Sevilla: The group had the chance to visit the Ramon Sanchez Pizjuan Stadium located in the Nervion neighbourhood. It is the home stadium of Sevilla Fútbol Club, and is named after the clubs former president, Ramón Sánchez Pizjuán. With a capacity of 43,883 seats, Ramón Sánchez Pizjuán is the ninth-largest stadium in Spain and the third-largest in Andalusia. After visiting grandstands, changing rooms and the conference hall, the group had some free time to do a shopping in a local store.







Alcazar: The Royal Alcázars of Seville, commonly known as the Alcázar of Seville, is a royal palace in Seville, built for the Christian king Peter of Castile. It was built by Castilian Christians on the site of an Abbadid Muslim alcazar, or residential fortress. The fortress was destroyed after the Christian conquest of Seville. The palace is a preeminent example of Mudéjar architecture in the Iberian Peninsula but features Gothic, Renaissance and Romanesque design elements from previous stages of construction. The upper floors of the Alcázar are still occupied by the royal family when they are in Seville, and are administered by the Patrimonio Nacional. During the visit, the group has a chance to see the salons with various tile decorations, beautiful patios, and vast gardens full of exotic plants.







Cadiz: Cadiz is located in southwestern Spain and is often considered the oldest city in Europe as it was founded in 1100 BC. It is a typical Andalusian pueblo blanco (white town) with many attractive sights and well-preserved historical landmarks. It is located by the ocean, and was the starting point for Christopher Colombus expedition for the discovery of the americas. During the day trip, the group visited the city centre which is surrounded by old buildings and many cafes and bars, the baroque style Cathedral, the oldest fish market in Spain, The Tavira watchtower and the plaza de España where the first Spanish democratic constitution was signed. Finally, the group were able to relax on Caleta beach for the rest of the day.







SUMMARY OF THE PROJECT

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.

The trainees were fully satisfied with their training. They gained much 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 their home country 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 a multicultural 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 with Zespół Szkół Zawodowych im. Marii Skłodowskiej-Curie w Płocku in the future.

SEVILLA, 01-07-2022



Carlos Hoyo de la Torre

Director