

Activity Report

Tafila Development Studies Center Business Service Network Bureaus (BSNB) Activities



Training Workshop

Professional preparation in robotics

- **Date:** Thursday, 19/5/2022
- **Time:** 04:00pm – 7:00pm
- **Location:** Tafila Technical University (TTU) - Business Service Network Bureaus (BSNB)
- **Title:** Professional preparation in robotics
Target group: Engineering Faculty
 - Systems intelligence Dept.
 - Mechanical Dept.
 - Computer, Communication and electronics Dept.
- **Lecturer:**
Engineer Mohammad Shannak (MSc Embedded Systems at University of Freiburg, Germany).
- **the attendees Communication mechanism:** Online (Zoom)
- **Number of participants and attendees:** 29

Training Workshop summary:

Among the activities of the European Union project – Erasmus+ especially JOBJO project, the Business Services Network (BSNB) office at Tafila Technical University coordination with Engineer Mohammad Shannak (MSc Embedded Systems at University of Freiburg, Germany) (Mohammad is working in AIS (Autonome Intelligente Systeme) in Freiburg on [the FreiCar Project](#). And he is working also at [Hahn-Schickard Research Institute](#) in the automation field) organized a training workshop on the topic of “Preparing Robotics professionals”. The activity was done online communication through Zoom platform. So, the training workshop covered the following topics:

- ROS/ROS2 in Robotics
- What would you expect the process of building a robot that hopefully does a task
- History of ROS
- Why I have to learn ROS?
- What would you gain from using ROS in your robotic application?
- Creativity, Innovation, Entrepreneurship and Project Management Graduation Ceremony

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About me.

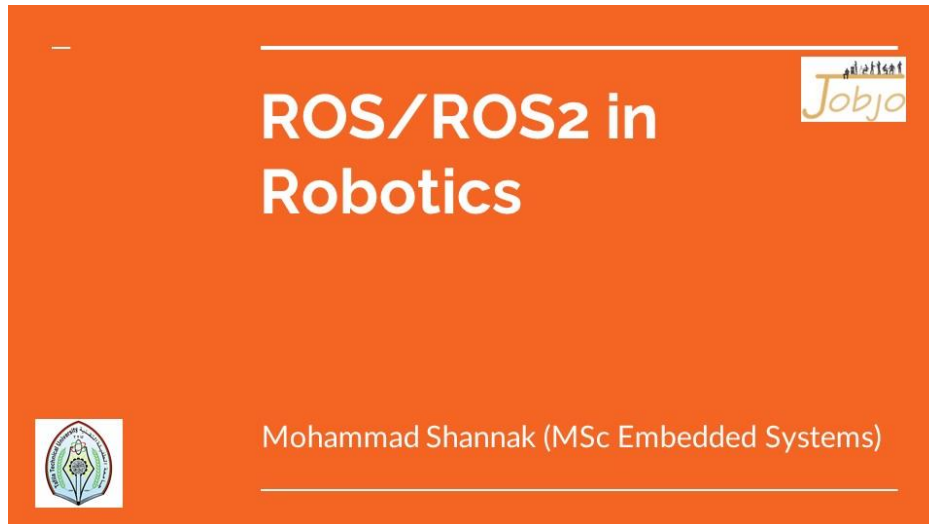
Currently I am doing masters in Embedded Systems at University of Freiburg, Germany.

I consider myself as an electronics hobbyist. I work in AIS (Autonome Intelligente Systeme) in Freiburg on [the FreiCar Project](#). I work also at [Hahn-Schickard Research Institute](#) in the automation field.

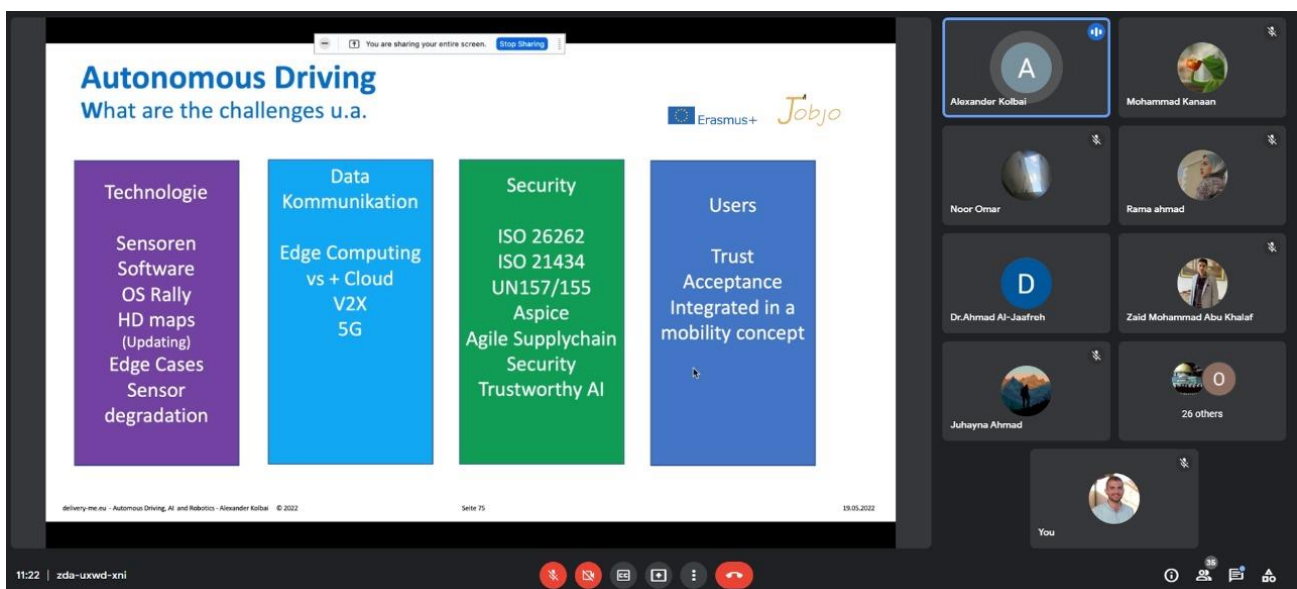
I have two robotic arms in Jordan, which I would like to offer to students to be used in research.



Mohammad Shannak 19/05/2022 Tafelah University



1 Gallery



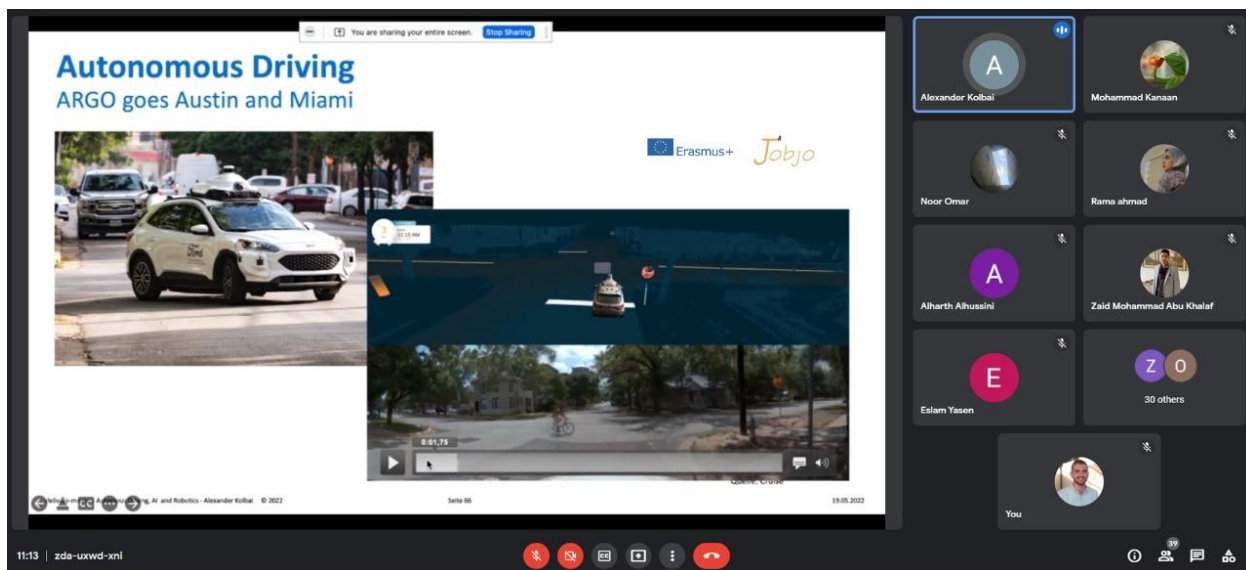
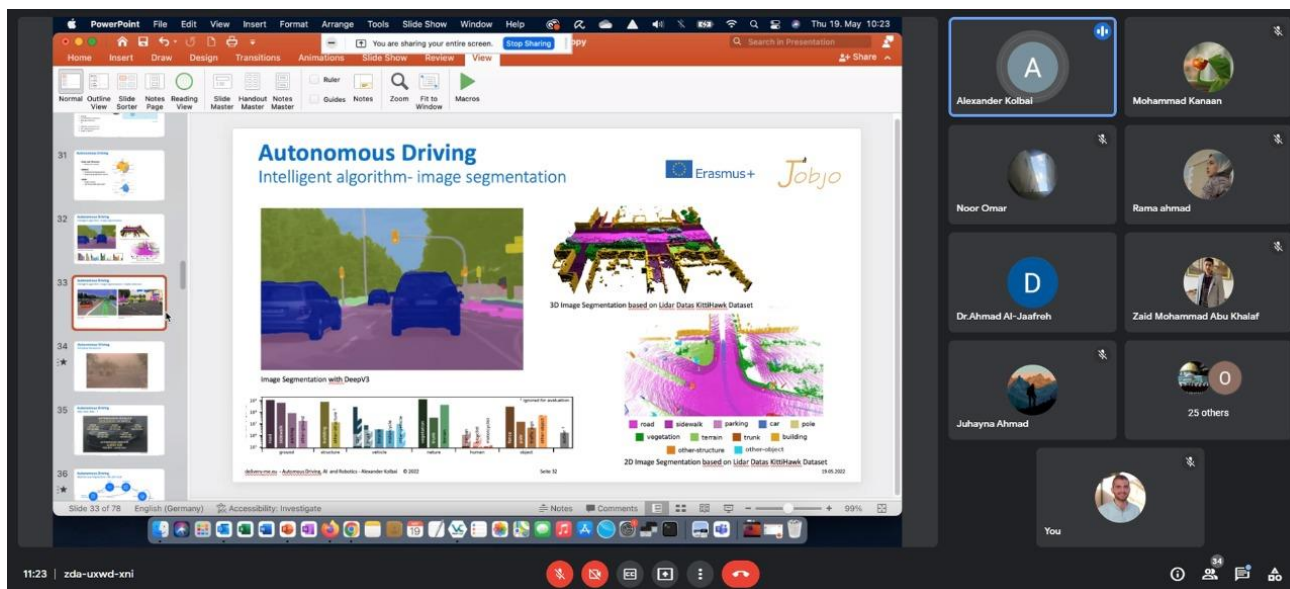
Autonomous Driving
What are the challenges u.a.

Erasmus+ Jobjo

Technologie	Data Kommunikation	Security	Users
Sensoren Software OS Rally HD maps (Updating) Edge Cases Sensor degradation	Edge Computing vs + Cloud V2X 5G	ISO 26262 ISO 21434 UN157/155 Aspice Agile Supplychain Security Trustworthy AI	Trust Acceptance Integrated in a mobility concept

Participants: Alexander Kolbai, Mohammad Kanaan, Noor Omar, Rama ahmad, Dr.Ahmad Al-Jaafreh, Zaid Mohammad Abu Khalaf, Juhayna Ahmad, 26 others.

Promoting Youth Employment in Prompt Areas in Jordan/ Job-Jo
Project Number: 598428-EPP-1-2018-JO-EPPKA2-CBHE-JP



ERASMUS PLUS Programme– Promoting Youth Employment in Prompt Areas in Jordan/ Job-Jo

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Alexander Kolbai is presenting

You are sharing your entire screen. [Stop Sharing](#)

Autonomous Driving

the world of autonomy is separated in 2 areas

Erasmus+ Jobjo

Platform Companies
(Software, Sensoren, Datacenters... till Level 5
but no car manufacturers)

Waymo One Waymo Via
Waymo Driver

NVIDIA

BOSCH
Bosch Sensoren

TESLA

cruise

Baidu 百度

apollo

Tencent 腾讯 JD.com

Didi

Yandex nuro

Captions have been turned off

Alexander Kolbai © 2022 Seite 59 19.05.2022

Alexander Kolbai
Mohammad Kanaan
Noor Omar
Rama ahmad
Osama Sandoqa
Zaid Abu Zaid
Eslam Yason
31 others
You

Alexander Kolbai is presenting

You are sharing your entire screen. [Stop Sharing](#)

Autonomous Driving

V2X / 5G / Wlan6 – Road users talk to each other

Erasmus+ Jobjo

Quelle: Mercedes-Benz

Quelle: Mercedes-Benz

Quelle: Others

Hussein Eyad Al-Qwabah has left the meeting

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Alexander Kolbai
Mohammad Kanaan
Noor Omar
Rama ahmad
Osama Sandoqa
Zaid Abu Zaid
Eslam Yason
31 others
You

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The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "ROS/ROS2 in Robotics". The slide content includes:

- Logos for Erasmus+, Jobjo, and Marine.
- The ROS logo.
- A section for "BlueROV" with a "Robot Category" dropdown set to "marine", "Resources" set to "Wiki", and "Tags" set to "underwater".
- A photograph of two people in a workshop setting with a robot.
- Text: "The BlueROV is a remotely operated underwater vehicle from Blue Robotics. It features Blue Robotics thrusters, a flight controller with ArduSub software, and a Raspberry Pi running ROS."
- Source: <https://robots.ros.org/>

The right side of the screen shows a grid of participant avatars with names: Zaid Mohammad Abu Kh..., Mohammad Shannak, Juhayna Ahmad, alexander kolbai, Firas Abualhuda, Lujain Alhajaia, Joman Abdullah, رزان العرابيات, Rama ahmad, and Ghofran Alkhalafat. A chat window on the far right shows messages from participants like Juhayna Ahmad, Abdalqader Dada, and Dr. Murad M. Alaqdash.

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Attendance Sheet

S.N O	1. Name in English	2. الاسم بالعربي	3. Major	5. Email
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