



MANUEL SERRANO BLANCO


Date of birth: 01/03/2001


Nationality: Spanish

CONTACT

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 [Manuel Serrano](#)

WORK EXPERIENCE

01/05/2018 – 28/10/2018 Elche, Spain

Industrial Refrigeration Technician Assistant Electrofret

Responsibilities:

- Assisted in the repair and maintenance of industrial equipment.
- Performed electrician tasks.
- Conducted air conditioning repairs.
- Maintained and serviced solar panels.

03/09/2022 – 21/01/2023 Elche, Spain

Web & C# AutoCAD ObjectARX Developer Miguel Hernández University (UMH), CAD Department

Responsibilities:

- Develop and maintain web applications.
- Implement engineering tasks using C# for AutoCAD.
- Integrate ObjectARX to enhance AutoCAD functionalities.

10/06/2023 – 28/01/2024 Elche, Spain

Research Intern Miguel Hernández University (UMH), Mechanical Department

Responsibilities:

- Investigate the feasibility of OBD in vehicle inspections.
- Conduct tests using different techniques.
- Perform data collection and analysis using Python and Pandas.
- Evaluate formal trials with professional diagnostic devices.
- Collaborate with police and (MOT test/ITV) stations for extensive data collection.

09/04/2024 – CURRENT Elche, Spain

Research and Development Intern Miguel Hernández University (UMH), Mechanical Department

Responsibilities:

- Propose and develop innovative solutions for practical, real-world problems in tire scanning technology.
- Develop and refine testing protocols to ensure the reliability and accuracy of the scanner.
- Lead project components, coordinating with team members to ensure successful task execution.
- Collaborate with cross-functional teams, including industry partners, for comprehensive product development.
- Research and develop a prototype tire scanner, integrating advanced 3D scanning technologies.
- Utilize a RealSense depth camera for accurate 3D scanning.
- Implement line laser technology for precise tire profile measurements.
- Perform rigorous testing and evaluate scanner performance, ensuring high standards.

EDUCATION AND TRAINING

2019 Elche, Spain

High School Diploma “IES Victoria Kent”

CURRENT Elche, Spain

Bachelor’s degree in electronic and automation Engineering Miguel Hernández University

Cooking Artificial Intelligence with Python Miguel Hernández University of Elche (40 hours)

LANGUAGE SKILLS

MOTHER TONGUE(S): Spanish | Catalan

Other language(s):

English

Listening C1

Spoken production B2

Reading C1

Spoken interaction B2

Writing B2

DIGITAL SKILLS

WEB DEVELOPMENT

React, Next.js, React Native | JavaScript | HTML | CSS

LINUX

Git | Linux | C++ | C

PROGRAMMING

C# | SQL | GitHub | Python, MATLAB and SQL | Python

ROBOTICS

Microcontrollers (Arduino - PIC) | Arduino, ESP82/ESP32 | Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib.

DRIVING LICENCE

Driving License: B

CONFERENCES AND SEMINARS

30/11/2023 – 03/12/2023 Krakow

IEEE Central European Student and Young Professionals Congress (CEuSYP23),

MANAGEMENT AND LEADERSHIP SKILLS

PRESIDENT, IEEE students branch UMH, 1 year (current)