Alejandro Rubio Galtsova

Robotics and Automation Engineer

CONTACT

Spain
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SKILLS

Robotics
ROS/ROS2
ABB (GoFa, IRB) and Universal Robots (UR)
RobotStudio
RAPID
A* path planning
Simulink
Unity/C#
Gazebo
RViz

Programming
C++
Python
C
JavaScript
Bash
Linux
MATLAB
Docker

LANGUAGES

Spanish (native)
English: C1, fluent; daily working language at Kongsberg Maritime (Norwegian group)

CERTIFICATIONS

- eJPT, Junior Penetration Tester, INE Security, Nov 2025
- Microsoft Azure Fundamentals (AZ-900), Microsoft
  Verify: credly.com/badges/f381cea3-cf0e-4649-aa83-118a63a5b5d0

SUMMARY

Robotics and automation engineer with more than three years of field experience at Kongsberg Maritime, installing, commissioning and troubleshooting marine control systems. Hands-on with control software and hardware, controller I/O, serial communications and industrial networks; project work with ABB and Universal Robots (UR) robots and mixed-reality AGV path-planning simulation; coursework in ROS/ROS2 and computer vision.

EXPERIENCE

Automation Service Engineer Jul 2023 – Present
Kongsberg Maritime GCS S.L.U., Offshore Automation, Spain and international field operations

- Install, commission and troubleshoot marine automation hardware and software, Power Management Systems, serial interfaces and network systems aboard operational vessels
- Diagnose faults across software, hardware, industrial networks, control systems and electromechanical interfaces under operational pressure
- Work daily with industrial communication protocols (Profibus, Modbus, CAN bus) and PLC-based control systems to maintain and improve ship automation

Research Engineer Jun 2022 – Sep 2022
ASSAR Industrial Innovation Arena, Skövde, Sweden

- Developed an interactive training platform for programming ABB GoFa and Universal Robots (UR) industrial robots within a robotics R&D team
- Built a training system that lets users create new robot tasks from VR and AR

Demo: youtube.com/@assarmrtraining688

EDUCATION

MSc Artificial Intelligence (78 ECTS), in progress, International University of La Rioja (UNIR), Spain 2025 – Present

Bachelor's Degree Robotics Engineering (240 ECTS), University of Alicante, Spain 2019 – 2023

BSc, major in Industrial Engineering (180 credits), University of Skövde, Sweden (double degree with the University of Alicante) 2019 – 2022

RELEVANT COURSEWORK & LABS

Robotics: Robot Programming, Mobile Robots, Industrial Robotics and Offline Programming, Computer Vision, Control Engineering. Hands-on labs in each course (robot programming, vision, control).

PROJECTS

AGV Robot Path Planning in Mixed Reality Environments
Implemented a mixed-reality AGV simulation for the Varjo XR-3 with A* path planning and hand-tracking scene building (bachelor's project, ASSAR Industrial Innovation Arena, Jan-Jun 2022).
Demo: youtube.com/@alejandrorubiogaltsova8731 · Code: github.com/alejandrorubioo/AGV_PathPlanning_Final_MR