Alberto Vicente Chacón

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Education

Syddansk Universitet (SDU), Robot Systems (Advanced Robotics Technology) — Odense, Denmark
Focus on Machine Learning, Image Processing, and Software Architecture for autonomous systems. — 2024 – present
- Master's Thesis: Researching Uncertainty Estimation in Deep Neural Networks using Evidential Deep Learning in PyTorch.

Universidad Politécnica de Madrid (UPM), Electronics and Automation Engineering — Madrid, Spain
2019 – 2024
- Specialized in industrial control systems, electronic circuits, and embedded systems.

Experience

Syddansk Universitet (SDU), Robot Programmer — Odense, Denmark
Worked on the HospiBot European project focusing on mobile platforms and human-robot interaction. — Aug 2024 – Nov 2025, 1 year 4 months
- Reworked PID controllers and designed custom voltage management circuits.
- Developed an image-based recognition pipeline for a humanoid robot to track human engagement.

Talgo, Software Engineering Internship — Madrid, Spain
Apr 2024 – Aug 2024, 5 months
- Built a Python-based testing tool from scratch to monitor train system responses using UDP and TCP sockets.

Siemens, Electronic Engineering Internship — Madrid, Spain
Jan 2023 – Dec 2023, 1 year
- Programmed workpieces using SINUMERIK, SinuTrain, and Run MyVirtual Machine.
- Designed parts and simulated manufacturing processes using Siemens NX.

Projects

Self-Taught ROS2 & Omnidirectional Robotics
Independent project to master robot middleware and navigation.
- Designed and built a prototype for an omnidirectional robot.
- Implemented motor control and sensor integration.

Custom 3D Printer Build
Built a high-precision 3D printer from individual components to understand mechanical calibration.

Skills

Robotics & Software

Engineering Tools

Languages

Spanish
Native

English
Fluent (IELTS grade 8)

Danish
A2 (Modul 2)

Japanese
Basics (JLPT N4)

Italian
Basics

Volunteering

Unidos por la paz, Guitarist
Participated in charity concerts for peace.

Children's association, Youth Group Leader