




 <https://www.linkedin.com/in/rubenayla>

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SKILLS

- AI-assisted development
- SolidWorks · Fusion 360
- Neural networks · Image processing
- Python · C (PIC18, STM32, ESP32)
- Altium Designer · PCB design · PID control
- CAN · UART · I2C communication
- Web scraping · Data classification
- Version control (Git) · Linux · Technical documentation (MkDocs)
- System integration · Rapid prototyping

SOFT SKILLS

- **Assertiveness:** Communicate design issues clearly and constructively.
- **Adaptability:** Learn fast and deliver results even outside my expertise.
- **Precision:** Work quickly without compromising quality.
- **Teamwork:** Collaborate effectively across disciplines.
- **Problem Solving:** Tackle complex challenges with practical, creative solutions.

OTHER PROJECTS

- Search engine and database for products. Like Amazon but for local stores:
<https://github.com/rubenayla/partle>
- Investment analysis software, with traditional models, neural nets, and GBM a decision trees. Based on fundamental data:
<https://github.com/rubenayla/invest>

OTHER DATA

- Driving license (B)
- Spanish (Native)
- English (B2)
- Piano teacher

RUBEN JIMENEZ MEJIAS

As an Aerospace Engineering student in my final year and the director of the autonomous driving section at Ü Motorsport, I have a passion for inventing and rapidly developing functional prototypes.

My experience spans designing physical products and software-based solutions. I've led projects to develop and implement diverse technologies, from driverless cars and sophisticated web scrapers to electric steering systems and PCB design, demonstrating my ability to handle both complex hardware and software challenges. My main passion remains the hands-on development of new technologies.

EXPERIENCE

Intern - Radian Systems

Implemented mechanisms in thermal modeling software for satellite systems, managing reference frames, geometrical data, and code validation.

[Remote · Feb 2025 - Present](#)

Corruption investigation in the Next Generation EU funds - Universidad Rey Juan Carlos

Development of a web scraping system for news and tenders, data storage and processing, classification with AI. I managed servers downloading news articles, and fine-tuned a binary classification model, among others.

[January 2024 - March 2025](#)

Chief Engineer of the Driverless Section - Ü Motorsport

Management and organization of personnel, budgets, timelines, and relationships with companies. Overhauled the software, boosting the driverless loop rate by two orders of magnitude, while making the hardware more reliable.

- Used Altium and STM32 microcontrollers for PCBs
- Python and Nvidia Jetson Orin for the Autonomous System
- Simplified processes by switching to Fusion 360, Notion for task management, and mkdocs for project documentation

[2022 - 2025](#)

Engineer at Ü Motorsport - Autonomous Race Car Development

- Design of the electric steering system, including torque calculations, assembly in SolidWorks, preparation of invoices and timelines, followed by physical assembly.
- PCB design and fabrication (Eagle)
- We manufactured steel parts using cutting and welding tools.
- I got sponsorships with new companies
- I laminated CFRP prepreg
- Problem-solving of all kinds: mechanical, electrical, management, team-related
- Communications: CAN, UART, I2C
- Used PIC18 microcontrollers and NVidia Jetson Xavier

[2020 - 2022](#)

Member of the aeromodelling team at COSMOS

CAD design and initial physical tests of the design of a VTOL drone among others.

[2018 - 2020](#)

EDUCATION

Aerospace Engineering in Aerospace Vehicles

Degree at Universidad Rey Juan Carlos, Fuenlabrada, Madrid

[2017 - 2025](#)

Professional Grade, Piano

Rodolfo Halffter Conservatory, Móstoles, Madrid

[2010 - 2020](#)