

# Adrian Fernandez Cuevas

[adfecu@gmail.com](mailto:adfecu@gmail.com) ❖ +1 829 205 7128 ❖ Santo Domingo, D.N. ❖ [Linkedin](#)

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## EXPERIENCE

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### Cosmelectric SRL

April 2025 – Present

*Intern*

*Santo Domingo, Dominican Republic*

- Learned the basics of **PLC programming** for **Allen Bradley**, **Siemens** and **ABB** controllers.
- Assisted in wiring of various **PLC panels**.

### Universidad Carlos III de Madrid

September 2024 – December 2024

*Research Assistant, Department of Bioengineering*

*Leganes, Spain*

- Designed and implemented models to enhance segmentation accuracy in lung nodule detection using **deep learning** and **computer vision**.
- Developed **YOLO** and **Unet** models, researched novel architectures using **PyTorch** on **GPU clusters**.
- Improved segmentation accuracy over **SOTA**, contributing to advancements in **medical imaging** research.

### Tecnun University of Navarra

February 2024 – June 2024

*Bachelor Thesis*

*San Sebastian, Spain*

- Engineered an **AI model** for classifying cervical cytology samples with limited labeled data using **weak supervision** and **multiple instance learning**.
- Researched, collected data, and developed a **ResNet CNN** with a **RNN** in **PyTorch**.
- Achieved **97% accuracy** and a **98% F1 score**, demonstrating the model's effectiveness in **digital pathology**.

### Fundación Vicomtech

June 2023 – August 2023

*Intern*

*San Sebastian, Spain*

- Created an interactive **data visualization dashboard** using **Python** to analyze **cancer patient data**.
- Built a **Streamlit web app**, fixed **frontend bugs**, and provided support for the **Cancer Survivor Smart Card** project.
- Enhanced usability of the **web scraper**, improved **data processing** pipelines, and optimized **data analytics workflows**.

### Tecnun eRacing

August 2023 – August 2024

*Formula Student, Head of Race Engineering*

*San Sebastian, Spain*

- Led the **race engineering** team and managed **on-track activities** to optimize **vehicle performance** using **data analysis**.
- Supervised a **3-person team**, created **Jupyter Notebook reports**, and utilized **MATLAB** for car data analysis.
- Secured **5th place (2023)** and **2nd place (2024)** at the **Barcelona-Catalunya circuit**, contributing to the team's best results.

### Donostia University Hospital

January 2023 – May 2023

*Externship*

*San Sebastian, Spain*

- Conducted **hospital rotations** in **Interventional Radiology**, **General Surgery**, **Otorhinolaryngology**, and **Nephrology**, gaining insights into **medical products** and challenges faced by doctors.
- Participated in **practical anatomy** lessons, performing **basic surgery** with donor pigs and utilizing **medical simulators**.
- Collaborated with classmates to propose the use of **Computer Vision** for **diagnosing lung cancer**, showcasing innovation and problem-solving skills.

## PROJECTS

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### CAF Machine Learning Challenge

April 2023 – May 2023

- Developed a **machine learning model** to detect **defects in railway tracks** using **sensor data**.
- Implemented a **supervised classification model** using a **Gaussian kernel SVM** in **MATLAB**.
- Won **first place** with an **F1 score of 97%** on the test set, demonstrating expertise in **data science** and **predictive modeling**.

### Hackathon Cree Banreservas

April 2025

- Developed a business idea for a startup alongside 4 other participants.
- Won **first place** with **DominGo**, a platform for discovering touristic experiences in the Dominican Republic.
- Enrolled in a **mentorship program** for further development of the business model.

## EDUCATION

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### Tecnun University of Navarra

September 2020 – June 2024

*Bachelor's Degree in Biomedical Engineering*

*San Sebastian, Spain*

- Class representative

## SKILLS

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Python, MATLAB, R, SQL, C++, Git, Microsoft Office, Mathematics and Statistics. **Languages:** English (C2), Spanish