

Ene Meco

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SUMMARY

Electrical and Computer Engineering PhD student specializing in Machine Learning and Signal Processing, with a top-ranked academic background. Research experience includes deep learning for environmental prediction and signal processing for weak signal detection, alongside industry work on AI systems.

EDUCATION

University of Illinois at Chicago **2026-**
PhD Electrical and Computer Engineering *Chicago, Illinois*

- GPA: 4.0

Sorbonne University - Faculty of Science and Engineering **2022-2025**
BS Major in Electrical Engineering/Minor in Computer Science *Paris, France*

- GPA: 19.04/20 – Top-ranked student, Highly Honorable with Praise

University of Chicago **2024-2025**
Exchange Program *Chicago, Illinois*

- Data Science & Machine Learning
- GPA: 4.0

WORK EXPERIENCE

IDEAL Summer Research **June 2026-**
Northwestern University *Evanston, Illinois*

- Research under Professor Ermin Wei: Mixed Autonomy System & Game Theory

Research and Teaching Assistant **January 2026-**
University of Illinois at Chicago *Chicago, Illinois*

- Research Assistant under Professor Enis Cetin: Wildfire Prediction with UNet-s
- Teaching Assistant: ECE115 Labs - Introduction to Electrical and Computer Engineering

Software Engineer & Software Engineering Team Lead **July-December 2025**
Full-time - Abissnet *Tirana, Albania*

- Developed a custom internal AI agent trained on proprietary company data using a vector database

Spectral analysis on FPGA board for the detection of astrophysical signals **June-July 2024**
Internship Paris Observatory | PSL *Paris, France*

- Python-based FFT signal processing on Red Pitaya for weak astrophysical signal detection

PROJECTS

▪ **AI Agent for Murlan (Self-Play Reinforcement Learning)** **December 2025**
Designed an RL environment and trained a self-play PPO agent with a policy–value network and legal-action masking for a multi-agent (4) Albanian card game

▪ **Unveiling Regional Dynamics: A Comparative Study of Balkan Countries in 2023** **March 2025**
Unsupervised Learning techniques (PCA, k-means) to profile Balkan countries based on their characteristics.

▪ **Heart Rate Monitor Circuit** **April 2024**
Using OrCAD PSpice to simulate the analog and digital parts of the circuit. Using Raspberry PI to acquire data from the circuit and process them to get the BPM value.

SKILLS & LANGUAGES

Skills:

- **-Data Science/ML:** Machine Learning, Deep Learning, PyTorch, Scikit-learn, Pandas
- **-Programming:** Python, C, Java, Assembly, SQL, R, MATLAB (Simulink)
- **-Electronics:** Analog and Digital Electronics, Optoelectronics, PCB Design & Soldering, KiCAD, ADC & DAC, TINA-TI, Arduino, PLC, Eagle Autodesk, OrCAD PSpice, VHDL, FPGA, AutoCAD
- **Languages:** English, French, Albanian