

PABLO AUGUSTO NEGRI

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WORK EXPERIENCE

Freelance Consultant

2020 - Present

- **Consulting services and solutions delivered:**
 - Design and implementation of solutions based on machine learning, data mining and advanced algorithms.
 - Predictive analytics, statistical modelling and database optimization to support strategic decision-making.
 - Extraction and processing of large data volumes to generate business value.
 - Strategic advisory services on computer vision systems and data science projects.
- **Tools and deliverables:**
 - End-to-end Python code development for training and deploying advanced predictive models.
 - Delivery of production-ready trained models.
 - Preparation of technical reports, detailed tutorials and technical training for work teams.
 - Communication of high-impact results through executive presentations, custom application development, interactive reports and web platforms.
- **Main projects developed:**
 - **Jamaica Public Service Company & UBATEC S.A. (2024):** Director and principal investigator of the artificial intelligence project focused on estimating the number of illegal connections to Jamaica's electricity grid.
 - **World Bank (2024):** Consultant for data analysis and technological development of machine-learning systems in natural-language models.
 - **European Commission - Joint Research Centre (JRC), Seville, Spain (2020):** Research consultant for the HUMAINT project, conducting analysis of ethical aspects in Facial Recognition Systems (FRS) and their specific application to identity recognition.
 - **SIFACE (2018):** Development of the facial-recognition identification system used by Argentina's Ministry of Security to search for missing persons.

Clients: Argentine Ministry of Security, RENAPER, World Bank, Jamaica Public Service, Joint Research Centre (EU).

CONICET

2010 - Present

Researcher

- Participation in and coordination of research and development projects in image processing, biometrics and pattern recognition.
- Development of machine-learning models based on deep-learning architectures.
- Applications developed:
 - Biometrics: facial and gesture recognition
 - Security: detection of people and license plates in video
 - Traffic: smart traffic lights
 - Meteorology: severe storm and rainfall forecasting

- Forestry and environmental applications: detection of cyanobacteria, algae and invasive species

University of Buenos Aires (UBA)

2017 - Present

Professor and Head Teaching Assistant

- Direction and supervision of doctoral, master's and undergraduate theses for fellows and early-career researchers.
- Teaching of undergraduate and graduate courses:
 - "Computational Linear Algebra"
 - "Algorithms and Data Structures I"
 - "Deep Learning and Computer Vision"
 - "Advanced Methods for Image Synthesis and Processing"

Universidad Argentina de la Empresa (UADE)

2011 - 2017

Adjunct Professor

- Teaching of undergraduate and graduate courses:
 - "Signals and Systems"
 - "Signal Processing"

AUSY France (Assigned to Sagem Défense et Sécurité)

2008 - 2009

R&D Engineer and Consultant

- Design and development of the IO2-DRN hybrid inertial navigation simulator (Doppler hybridization) for the NH90 military troop-transport helicopter.
- Implementation of simulation tests to evaluate system performance and behavior in real flight conditions and under different scenarios.
- Preparation of technical reports and system reports in French and English.
- Management and leadership of a team of 3 engineers.

Université Pierre et Marie Curie - Paris VI (ISIR)

2004 - 2008

Doctoral Researcher and Consultant

- PSA Peugeot-Citroën Project: Design and development of an onboard obstacle-detection system using cameras for next-generation vehicles. Application of boosting architectures to achieve real-time performance, reaching 95% accuracy at 12 FPS.
- LPREditor Project: Development of a vehicle-model recognition system. Reduction of false alarms in automatic license-plate recognition systems by 70%.
- University Lecturer: Teaching of "C++" and "Java" courses for the Computer Engineering degree.

Solucom Argentina S.A.

2002

Director of Research and Development (R&D)

- Design and development of software for commercial telecommunications products (Smart MP3 Rec and Call Center Rec).

Siemens S.A.

1998 - 2001

Hardware and Software Development Specialist

- Development of test systems for the SLM-Internet modules of the EWSD telephone exchange.
- Design and development of a PCI board based on the MPC860 microprocessor for different interfaces: S0 (ISDN), CN, ATM25 and Windows NT, as well as the communication protocol and the system's graphical user interface.
- Responsible for the "version control" project (ClearCase).
- Monitoring of processes under ISO 9000 quality standards.

EDUCATION

Université Pierre et Marie Curie (Paris VI) - Institute of Intelligent Systems and Robotics (ISIR)

PhD in Robotics 2004 - 2008

MSc in Robotics and Intelligent Systems 2002 - 2003

Universidad Tecnológica Nacional (UTN)

Specialist Degree in Quality Engineering 2000 - 2001

National University of La Plata (UNLP)

Electronic Engineer 1992 - 1998

SKILLS

Technical skills:

- Python, C, C++, MATLAB, Java, MySQL, LaTeX, HTML, GitHub, ClearCase.
- AI modelling and architectures: deep learning, neural networks (Transformers, CNN, U-NET, GAN, LSTM, RNN), natural language processing (NLP), Support Vector Machine (SVM), Random Forest, AdaBoost.

Languages:

- Spanish - Native
- French - Advanced
- English - Advanced