

# ASPRO Marie

*R&D Engineer in Computer Science: specialized in Data Science and Artificial Intelligence*

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Currently working on a Robotics and AI team research. Knowledgeable about machine learning, data science and artificial intelligence. Experienced in teamwork, with a certified advanced level in English. Organized and rigorous with 2 previous 6-month internship experience on chatbot and computer vision.

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## EDUCATION

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**Engineering Degree in Computer Science** – [University of Technology of Belfort Montbéliard](#) (France) – September 2020 to August 2023

- Related course work: Semantic web and web ontology language, Optimization of data bases (SQL requests), Business Intelligence and Big Data, Machine Learning, Multi-Agent System and Simulation, Mathematics Optimization Techniques, Machine Learning by Practice
- **NVIDIA DLI Certificate** – Accelerating End-to-End Data Science Workflows
- Academic projects:
  - **Mathematically model VRP with contains** and to solve it with **approached methods in Python** and to compare these techniques for 5 months with a team of 5 people.
  - **Data mining about energy consumption and implementation of Machine Learning algorithms in Python**: Random Forest, K-means, Decision Tree, Neural Network, and comparison of each method for 5 months with a team of 4, team leader.
  - **Pogo**: created a digital board game with a mode of action AI vs gamer for 2 months with a team of 3 people.

**Two-year technical degree** – [Efrei Paris](#) (France) – September 2018 to June 2020 - Ranked 20<sup>th</sup> among 400.

- Related course work: Mathematics, Algorithmics, Physics, Electronics, Programming C and C++ (OOP), Web (HTML, CSS, JavaScript)
- Academic project: created a **carbon footprint calculator**: used HTML, CSS, JavaScript and Redis for 6 months with a team of 5 people, team leader.

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## WORK EXPERIENCE

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**Research and development engineer - INRIA** (Sophia Antipolis, France) – (since November 2023)

- Anomalies detection for assembly errors by comparing a numeric model with measurements acquired using a multi-sensor system (cameras and LiDAR) for the “Usine du futur” project led by **Naval Group**.
- Been part of the **ACENTAURI** Research Team, English-speaking and writing environment.

**Internship – Computer Vision Engineer Intern – Toyota Motor Europe** (TC Zaventem, Belgium) – **6 months** (February 2023 to July 2023)

- Been responsible for testing, integrating, and porting computer vision algorithms.
- Developed a visual anomaly detection software on an embedded device.
- Been part of the Robotics Research Team, English-speaking and writing environment.

**Internship - Assistant Engineer - CEA** (Bruyère-le-Châtel, France) – **6 months** (September 2021 to February 2022)

- Implemented the chatbot into the users' service portal.
- Created complex chatbot scenarios and bot identity.

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## SKILLS & LANGUAGES

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### Computer Science Skills:

- Python (Pandas, NumPy et Scikit-learn, PyTorch)
- C/C++
- SQL, Redis, Oracle, SQL Server, MySQL
- Supervised/Unsupervised Learning, Reinforcement Learning
- Multi-agent systems, Heuristic, Meta-heuristic
- Open classrooms certification to be able to manage code with Git and GitHub
- Docker

### Soft Skills:

- Thorough and reliable.
- Open minded, inquisitive.
- Ability to adapt, flexible.

### Languages:

- French: Native
- English: Fluent/Advanced (B2/C1+)

## Reference persons:

### Engineering school at UTBM

- College professor: **GAUD Nicolas** – Associate Professor et Director of Energy and Computer Science Department – [nicolas.gaud@utbm.fr](mailto:nicolas.gaud@utbm.fr)
- College professor: **LAURI Fabrice** – Associate Professor et Artificial Intelligence Training Manager – [fabrice.lauri@utbm.fr](mailto:fabrice.lauri@utbm.fr)
- College professor: **GABER Jaafar** – Associate Professor et Data Science Training Manager – [jaafar.gaber@utbm.fr](mailto:jaafar.gaber@utbm.fr)

### Internship at CEA

- Internship mentor: **Frédéric** – Head of Department
- Supervisor: **Laura** – Engineer

### Internship at Toyota Motor Europe

- Internship mentor: **MEIER Sven** – Manager Robotics Research – [sven.meier@toyota-europe.com](mailto:sven.meier@toyota-europe.com)
- Supervisor: **DESPINOY Fabien** – Senior Engineer – [fabien.despinoy@toyota-europe.com](mailto:fabien.despinoy@toyota-europe.com)

### INRIA

- Manager: **MALIS Ezio** – Head of Department – [ezio.malis@inria.fr](mailto:ezio.malis@inria.fr)