

Audrey Cigolotti Robotics Software Engineer

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EXPERIENCE

Human-Robot Interaction Engineer, Enchanted Tools [🔗](#)

2022 - present | Paris, France

- **Develop** and **maintain** the interaction software stack in C++ and Python.
- Designed and implemented real-time **natural multimodal interaction flows** enabling verbal and non-verbal communication between humans and the robot.
- Integrated and performed **technical** and **artistic** QA on a third-party animation engine.
- Developed a real-time memory system using an entity-component framework.
- Designed and developed scripted and autonomous high-stakes live demos (TED AI, CES, Vivatech, etc.).

Industrial Back-End Developer, Metron

2020 - 2022 | Paris, France

- Maintained and improved the embedded Linux data collector (*MetronLab*) and developed Java modules using the Ignition SDK to route client data to SQL databases.
- Development of the **Python** API (fastAPI) of the MetronLab
- Designed and implemented **data-flow automation pipelines** for industrial monitoring and analytics.

Voice-Assistant Engineer intern, Snips

2019 | Paris, France

Creation of business demonstrations and vocal assistant applications for showcasing our solutions:

- Vocal Interaction Design & Voice User Interfaces
- Voice assistant "Skills" programming (**Python & Typescript**)
- Voice-GUI communications (Crank Software & Lua)

Data Science intern, Batch

2018 | Lyon, France

- Behavioural study of mobile app users and churn prediction:
 - Visualization and data analyses with **Python** (Pandas, NumPy, matplotlib)
 - Getting and cleaning data from **NoSQL** databases (Cassandra)
- Use of TensorFlow (RNN-LSTM), tasks automatization

EDUCATION

Engineering Degree - Electrical & Computer Engineering,

University of Technology of Troyes

2016 - 2019 | Troyes, France

Major in **Mobile Technologies and Embedded Systems**.

- Focused on embedded software, machine learning for edge devices, mobile systems, IoT, system architecture, and project management.

2-year University Diploma - Electrical, Electronics & Industrial Computing,

IUT of Cachan, Université Paris-Saclay

2014 - 2016 | Cachan, France

Major in **Real-Time Computing and Networks** - Top 3% (ranked 4th).

- Covered embedded systems development, real-time OS, electronics, mechatronics, and industrial automation.

SKILLS

Programming

Python, C++, Java, Bash

Software & Architecture

- Git, Docker, Linux
- API design, CI-oriented workflows
- Distributed messaging
- Software design principles, clean architecture, codebase quality

Others

Soldering, CAD (Plasticity), 3D printing & sewing

LANGUAGES

French

Native

English

Fluent

Italian

Elementary

INTERESTS

Hobbies

- Creative Making:
 - Digital Illustration
 - Sculpting
 - Embroidery
- DIY Electronics
- Model Building

Sports

- Crossfit
- Horse-riding
- Bouldering