# Matteo Avigni

## Contacts:

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## Languages:

- French (Native)
- Italian (Native)
- English (C1)
- Spanish (B2)
- Russian (A1)

## Studies:

### **Electrical Engineering program (BUT GEII),** IUT de Bordeaux
08/2025 - present

- **Circuit design (PROTEUS tool suite)**

### **External study programs,** Global
09/2022 - 08/2025

- **Electronics Lab classes, La Teste de Buch (11/2024 - present)**
- **Electrical Engineering classes, Padova (10/2023 - present)**
- **Advanced mathematics classes, Global (09/2023 - present)**

### **Collège-Lycée Saint Elme,** Arcachon
09/2015 - 06/2022

- Baccalauréat Général with honors, European class option (06/2022)

## Experience:

### **Avini Systems,** Global — *Intern*
(09/2022-present)

I have been working for Avini systems since I finished high school. I have worked with leading corporations like GM, Dallara, Audi, Lamborghini, and Leonardo to provide cutting-edge sound technology for motorsport and aerospace simulation training. I worked across the board with the company's engineering, legal, marketing, business, and product design teams which allowed me to develop a wide and complete skill set.

### **L'Etche Ona,** La Teste de Buch — *Busboy*
(06/2023 - 09/2023)

I worked as a busboy in a local prestigious restaurant during the summer.

### **Restaurant Le Thiers,** Arcachon — *Kitchen assistant*
(07/2021 - 08/2021)

I worked as a kitchen assistant for a month at a local restaurant.

### **Avini Group,** USA — *Intern*
(11/2018)

This internship was focused on technology integration of the *Avini sound hologram* for NASCAR broadcast. I participated in recording sessions on track with Team Penske and engaged in various business meetings.

## Projects:

### The *Avini Sound Hologram* — *Engineering*

The *Avini Sound Hologram* is a cutting edge sound technology that maps the energy field of an environment. Hence, applied to a car or an aircraft, it is able to replicate the exact energy field of the vehicle in a simulation setting, without synthesising anything. This technology can be useful for very diverse tasks and environments like medical or mechanical diagnostics to pinpoint stress points in a system and prevent structural damages even before they occur.

### Nettoyeurs Subaquatiques du bassin d'Arcachon (NSA) — *Scuba-diving*

I have been involved with the NSA since its creation six years ago. Our goal is to participate in the preservation of the marine ecosystem. Our first mission is to clean the seafloor of harbors, public beaches, diving spots, and lakes. We engage in other missions like the Hippo Project. We built and installed a sea horse hotel to foster and monitor the local population. This project was granted substantial subsidies and major recognition by both the French and European parliaments. We engage in a collaborative effort with professional biologists and federal entities to better define and protect the underwater ecosystems by mapping out the bottom of seagrass patches they are unable to detect with their aircraft mounted RADAR technology due to depth.

### Radio communication — *Engineering*

I have been building antennas and telecommunication software for satellite imagery reception, Air traffic monitoring and long range telecommunication. I have been able to forecast European weather with NOAA's satellite imagery, built an antenna capable of monitoring air traffic control above my house with a maximum range of 300 Km and intercepted long range HF communications from different continents.

### European Medics telemedicine channel — *Community service*

I participated in the creation of a telemedicine channel for Ukrainian civilians at the start of the Ukrainian conflict to back up their saturated medical services. The channel was monitored constantly by doctors, nurses and translators who assisted civilians who were unable to reach proper medical care.

### Food service for firefighters — *Community service*

During the summer in 2022 my hometown was struck with raging wildfires and we were prompted to evacuate. I joined a civilian group that put up a temporary restaurant/cafeteria for public services units like firefighters, police, EMS and military. All the food was donated by local shops and restaurants, I worked tracking inventory, preparing food and then serving it. It was terribly exhausting working sometimes 18h a day for a week but thanks to this common effort we were able to overcome the fires quicker and more efficiently. This project sparked an official movement today and most unsold items in supermarkets and restaurants are donated to local fire stations.