



# FILIPPO SERAFINI

Advanced Automotive Electronic Engineer

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## EXPERIENCES



**Electrical and Electronic System Department**  
*Ferrari S.p.A., Maranello*

MARCH 2019 - PRESENT

### Audio and Active Sound System Development - FEBRUARY 2021 - PRESENT

HW and SW development of Audio and Active Sound System components:

- Concept and Design Validation of the Audio and Active Sound System.
- Definition of HW and SW Functional Specifications and Requirements.
- Supervision and Management of Supplier's HW and SW Development Process.
- Bench and In-Vehicle Testing and Validation.

### Innovation Specialist - JUNE 2020 - JANUARY 2021

Involved as technical support on various innovation projects, mainly focusing on next-gen E/E architectures and ADAS.

### Innovation Internship - MARCH 2019 - MAY 2020

Involved as technical support on various innovation projects, mainly focusing on Infotainment, HMI technologies, Augmented Reality.



**UniBo Motorsport - Electronic Division Member**  
*Formula SAE Team - University of Bologna, Bologna*

SEPTEMBER 2017 - SEPTEMBER 2018

Software development of the Driver Interface ECU, managing the CAN protocol stack, the GUI of a 4.3" LCD display and multiple digital GPIOs.

## EDUCATION



**MSc in Advanced Automotive Electronic Engineering**  
*Motorvehicle University of Emilia Romagna, Bologna*

DECEMBER 2017 - OCTOBER 2019

**Final Grade** - 110/110 with honors

**Dissertation Title** - "Realization of a Proof of Concept of an Augmented Reality Wearable Device"



**BSc in Computer Engineering**  
*Alma Mater Studiorum - University of Bologna, Bologna*

SEPTEMBER 2014 - OCTOBER 2017

**Final Grade** - 110/110 with honors

**Dissertation Title** - "Software per il labeling di immagini per l'addestramento di algoritmi di deep-learning"

## LANGUAGES

**Italian** - Native Speaker

**English** - Fluent - Cambridge FCE

## SKILLS

### Technical Skills

- Automotive Protocols (CAN, UDS, A<sup>2</sup>B)
- Automotive Tools (CANalyzer, DIAnalyzer)
- Software Lifecycle Management (Polarion, Jira)
- Software Development (Git)
- Programming Languages (Python, C#, C/C++, Java, MATLAB, Javascript)
- Model-based Design (Simulink, LabVIEW)
- Web Development (HTML5, CSS3, XML)
- Software Frameworks (.NET, OpenCV, GTK+)
- Game Engine (Unity, Unreal Engine)
- Platforms (GNU Linux, Microsoft Windows, macOS, Android)
- Microsoft Office Suite (Word, Power Point, Excel)
- Embedded Platforms (STM32, PIC32, Arduino)

### Soft Skills

- Teamwork
- Project Planning
- Adaptability
- Problem Solving
- Creative Thinking

## PATENTS

Ferrari S.p.A. - MARCH 2021

"Method for the performance-enhancing driver assistance of a road vehicle with an augmented reality interface"

IT Patent [IT102020000004891A](#)

US Patent [US17/194,384](#) (Pending)

EP Patent [EP21161628.9A](#) (Pending)

## AWARDS and HONORS

**LoRa-AID** - MAY 2018

Winning project of **Long Range IoT Hackathon**, a hackathon organized by DEI - Unibo.

**GEnerA** - OCTOBER 2016

Winning project of **HACKreativity**, a hackathon organized by Fondazione Aristide Merloni.