

## Contact

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### Address

67000, Strasbourg, France

### Web Portfolio

<https://juandanielgomez.github.io>

## Education

2021

**M.Eng in Embedded Systems**

Grenoble INP - Ensimag: France

2021

**M.Sc in Computer Vision,  
Graphics and Robotics**

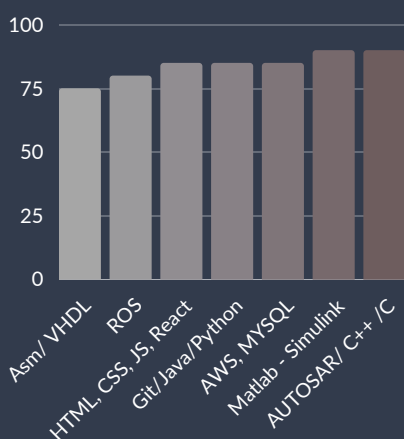
Grenoble INP - Ensimag: France

2019

**Bachelor's Degree in Electronic  
Engineering 2015-2019**

Universidad del Norte: Colombia

## Expertise



## Language

French C1

English C1

Spanish (Native)

Italian B2

# Juan Gómez

## Embedded Software Engineer

Electronic engineer specialised in embedded software, with a master's degree in computer vision and robotics. Currently working as a consultant for embedded software projects in the automobile industry. Previous experience consulting for research projects in computer vision for intelligent vehicles. Excellent oral and written communication skills. Great ability to lead/support my team. Good analysis capabilities for identifying and solving complex problems.

## Experience

### 2021 - Present

Capgemini Engineering - Bosch Abstatt

### Automotive Embedded Software Developer

Currently working as an embedded software developer and analysis engineer in the Diagnostic Communications (DCOM) department for vehicles. Developing diagnostic services with the AUTOSAR standard architecture. Managing entire V cycle of production: Requirement Engineering, Software design and development, unit and component tests (hardware on the loop). As one of the first hires in a team expansion process I developed crucial leadership and technical skills to manage and support a part of the team, both in the training of new-comers and every-day technical support of their activities. Enhanced important communication and analysis skills to provide quick problem solving for the client. Proved to have a great capacity for adapting to new environments and technologies: quickly became one of the few analysis experts to solve complicated tasks.

### 2021 (3 months)

Capgemini Engineering - R&I

### Research Engineer

Worked as a research engineer for the Research and development division of Capgemini Engineering. Worked in an intelligent vehicle project researching and developing computer vision and machine learning applications to detect vehicles, people and traffic signs in real road data. Customised a Yolov4 network for custom training and detection. Implemented a tracking module with the Hungarian algorithm technique to solve the data association problem alongside Kalman filter to predict and correct target's states with a linear velocity model. This experience encouraged me to work in a team, to meet deadlines and to work with limited resources.

### 2021 (6 months)

Laboratoire d'informatique de Grenoble (LIG)

### Research intern

My responsibilities consisted of researching the state-of-the-art DATMO (detection and tracking of moving objects) techniques in data such as 2D and 3D point clouds. And then design and implement a state-of-the-art solution to detect, classify and track people in 3D point cloud data in indoor environments. I worked alone on this project as part of my research internship and my master's thesis within the Marvin team at LIG. This experience empowered me to tackle complex problems and work towards a solution from the design to the implementation quickly and efficiently.

## Skills/Abilities

- Problem solving
- Fast Adaptation
- Team player
- Leadership
- Organized
- Reliable
- Effective
- Planning
- Motivated