

Embedded software developer for autonomous driving applications



SMART ME UP
a Magneti Marelli company

Company

Smart Me Up is a start-up company designing the new generation of visual perception technologies for autonomous driving systems. The team (8 PhDs & 10 AI engineers) focus on scientific research taking a disruptive approach to tackle automotive industry challenges. Recently acquired by a major automotive supplier, we are beginning a period of rapid growth. So, we are glad to provide opportunities for any brilliant and friendly people, lovers of science, and motivated to reduce road fatalities for 1.3 million people per year down to 0 with mathematics.

Position

Smart Me Up is actively hiring embedded software developers for autonomous driving applications. The successful candidate will help optimizing and adapting embedded perception software for specific system on chip. The goal is to speed up existing real automotive products and to enlarge our supported hardware. For a specific system on chip, they will be tasked to:

- Compile and execute the C++ perception library
- Benchmark and optimize the library
- Use vendors tools to run neural networks
- Help the research team to optimize their algorithms

The successful candidate will integrate dynamic software development group, aiming to overpass the limitation of low power hardware to run state of the art autonomous driving algorithms. The successful candidate will benefit from the full pipeline of experience from the mathematical aspects of the algorithms to their specific hardware implementation, owing to our position in a committed automotive supplier.

Profile

The successful candidate would operate within the Smart Me Up offices in Grenoble, France attached to the development team. They should have good knowledge in C/C++ programming language, parallelization and vectorization. They should know how to work on a system on chip (understanding datasheet, booting up, compiling, debugging, ...), and have basis in linux command line. Ideally, they should have knowledge in Python programming language and deep learning or computer vision algorithms.

The successful candidate is expected to be resourceful because the system on chip they are going to work on do not necessarily have robust tools and documentation.

Knowledge in software development in car environment and in ISO26262 standard is a plus.

Contact

Candidates should send their CV to jobs@smartmeup.io, and are free to contact the same address for any questions on the job or Smart Me Up itself.