C/C++ developer in deep learning and computer vision for autonomous driving applications

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 developers related to embedded deep learning and computer vision algorithms in autonomous driving applications. The successful candidate will help implementing an embedded perception software library to integrate into a real automotive products. They will be tasked to:

- Understand the algorithms coming out the Perception research team
- Implement them into a custom C++ library targeting embedded devices
- Optimize them to fit the power limitations of the system
- Respect automotive and safety standards

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++ and basis in Python programming language. Ideally, they should have familiarity with parallelization, vectorization and the fundamentals of embedded programming.

In order to implement algorithm from the research team, they should have an aptitude for mathematical approaches in computer science, ideally in deep learning and computer vision algorithms.

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.