

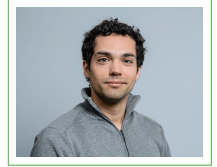
Antoine Desbordes

Optimization engineer

✉ antoine.desbordes@gmail.com

in [antoine-desbordes-59142310/](https://www.linkedin.com/in/antoine-desbordes-59142310/)

🌐 [antoine-de](#)
May 31 1985



Skills & Abilities

Programming Languages ADVANCED C++, RUST, PYTHON

Optimization GRAPH THEORY (MOSTLY SHORTEST PATH), MATHEMATICAL PROGRAMMING, CONSTRAINT PROGRAMMING, LOCAL SEARCH, DECISION TREE, RULES ENGINE

Tools LINUX, DOCKER, GIS, BOOST, SOLVERS (CPLEX, CHOCO)

Work Experience

Nov 2013 – **Software Engineer**, KISIO DIGITAL, Paris.

Present Software engineer in the Operation Research team in charge of [Navitia](#).
Navitia is an [opensource](#) traveler information software providing multi-modal journeys computation, timetables, isochrones, ...
It is build a micro-service API with components written in C++, python and rust and can handle real-time data.

Oct 2007 – **Optimization Engineer**, EURODECISION, Paris.

Nov 2013 EURODECISION is a consulting firm specialized in Optimization.
Example of missions carried:

- **Air France** Long term mission on:
 - crew scheduling;
 - architecture of the new yield management system and development of the cancellation forecasting module;
 - model of the impacts of a flight program change on the income and optimization of the flight program.
- **CSDL** (European research project) - Stochastic optimization for uncertainty handling in product design (applied to car weight reduction process);
- **ERDF** - Shortest path and vehicle routing implementation for the deployment of the Linky electric meter;
- **Tegaz** - Leading the development of an optimization engine to balance a gas network;
- **AAA Data** - Rule based engine to aggregate heterogeneous data sources.

Languages

French Native Speaker

English Fluent

Daily use at work. 7.5/9 « good user » at the IELTS exam.

Education

2003- 2007 **École des Mines de Nantes**, Computing science and operations research.

2002–2003 **Classe Préparatoire aux Grandes Ecoles**, Lycée Claude Bernard, Paris, Graduated from High School (in Maths and Physics).