



# Mechatronics, Robotics Engineer

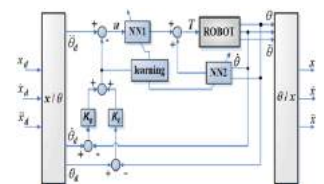
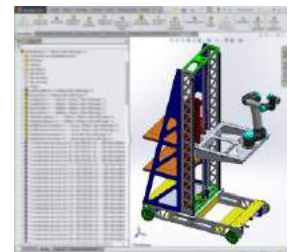
*Les Companions* is a start-up specialized in designing and developing robotic assistants for painters. Our vision is to have skilled tradesmen work hand-in-hand with machines, in a collaborative way on the building sites. The machine achieves the hard, repetitive and dull tasks while the workman works on the more skilled and noble tasks, where his know-how is highly valued.

We are located in Lille, Northern France, a very lively and dynamic place, renowned for its lifestyle and its connections to major cities in Europe (you get to Paris, London or Brussel in about an hour).

## Mission

Our mission is rooted in introducing robotics into a world which was scarcely automated up to now. This brings design and control challenges. We want to develop cutting-edge robotic tools that reproduce the human gestures and integrate them into our robot. The skilled, painting and sanding manual operations require a very sharp understanding of the operating conditions so as to mimic them. You will be responsible for:

- Designing new robotic tools and improving the existing ones
  - Integrating these tools in the robot
  - This may involve some hands-on tests and hacking
- Refactoring the overall architecture of the robot
  - To bring new features and improve characteristics
  - This involves numerical simulation for optimization
- Writing the kinematics and dynamics equations governing the systems behavior
- Defining and tuning control laws that will drive the system
  - This involves basic coding
- Sourcing the hardware needed for R&D and industrialization
- Bringing new ideas that will feed innovation
  - This involves being inspired and creative



*Mechanical design & control.*

## Your profile

- You have a proven track record in mechatronics or robotics
- You have at least 2 years experience
- You have maker minded with a solid theoretical background
- You are committed, self-motivated, and creative

## We offer

- A dynamic, innovative environment and a small welcoming team
- A disruptive project adventure that can change the world... well at least a little bit ;)
- A competitive salary package

## Contact

**Les Companions**  
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**Les Companions**  
We make your process smart!

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