



Mechatronics Engineer (f/m/d)

Permanent employee, Full-time in Osnabrück, Germany

About Nature Robots

Nature Robots is a disruptive robotics and AI startup dedicated to transforming agriculture through innovation. We are committed to developing cutting-edge solutions that support regenerative and sustainable farming practices, addressing the challenges posed by climate change, population growth, and the need for local food production.

The Opportunity

As a **Mechatronics Engineer**, you will be instrumental in developing autonomous navigation and precision farming software. Your work will directly contribute to our full-stack, modular autonomy platform for complex agricultural environments. Join us in creating technology that empowers farmers and enhances sustainable food production.

Your Role

- **Hardware Design & Assembly:** Design, prototype, and assemble robust electromechanical systems and enclosures for our agricultural robots.
- **Sensor & Actuator Integration:** Integrate hardware components, including motors, drive systems, and sensors (LiDAR, cameras, IMU, etc.) into the physical robot architecture.
- **Electronics & Wiring:** Develop electrical schematics, design custom PCBs, and manage power distribution systems and wiring harnesses.
- **Cross-Functional Collaboration:** Work closely with the software team to ensure seamless communication between microcontrollers, embedded systems, and our software stack.
- **Interdisciplinary Work:** Broad range of tasks beyond pure hardware; participation in FPGA development and/or embedded software; close collaboration with software and algorithm teams.
- **Testing & Validation:** Conduct rigorous field tests to validate hardware reliability, mechanical robustness, and overall system performance in real-world agricultural conditions.



- **Maintenance & Optimization:** Troubleshoot hardware issues, iterate on existing designs, and optimize the robotic platforms for durability and manufacturing.

What you bring

- Degree (Bachelor's or Master's) in Mechatronics, Mechanical Engineering, Electrical Engineering, or a related technical field.
- Professional experience related to the development of an end-user product, specifically involving electromechanical prototyping and hardware assembly.
- Proficiency in 3D CAD software (e.g., SolidWorks, Fusion 360) for mechanical design.
- Hands-on experience with electronics design, soldering, circuit troubleshooting, and microcontroller programming (e.g., C/C++).
- Experience with embedded systems and integrating hardware with robotics frameworks.
- Experience in agricultural robotics is a plus but not required.
- Passion for sustainable agriculture and autonomous systems.

Our offer

- A **meaningful role** in a pioneering software & agri-tech startup making a real-world impact with real products.
- **No corporate politics:** Short decision-making paths, real responsibility from day one, and an extremely steep learning curve.
- **Flexibility & Trust:** Hybrid working, flexible working hours, and a culture based on trust rather than micromanagement.
- A **meaningful role** in a pioneering agri-tech startup making a real-world impact.
- We offer **challenges every day** and organic growth opportunities as the company scales.
- **Corporate Benefit** collection

Interested?

1. Fill out the [application form](#).
 2. Send us your motivational letter, CV and portfolio at career@naturerobots.com.
- Please stick to the given sequence. Only applications having successfully completed both steps can be considered.** 