

ROBOAT

INTERNSHIP Machine Learning

- 3-6 months
- €500 per month
- Based in Amsterdam

ROLE

We are looking for a machine learning intern who is eager to improve our perception stack. Object detection, classification and path planning are key pillars in our autonomy system and are constantly being improved. With the recent rapid advancements in machine learning, this area offers numerous opportunities to apply cutting-edge techniques.

There are a couple of different potential projects for this role that will directly contribute to the robustness and reliability of our autonomy system:

1. Develop a pipeline to automatically select and label data from our extensive data pool, ensuring the creation of well-distributed datasets. This would also include helping create better auto-labelling tools to produce higher quality models.
2. Develop a path planning algorithm to ensure efficient and safe paths in complex marine environments. This could be based on simulated and/or real world data from expert users. The output would also need to be verified as to its reliability in various scenarios.

YOUR INPUT

Requirements:

- BSc in Computer Science, Electrical / Mechanical / Mechatronics Engineering or equivalent.
- Experience with C++ and / or Python
- A strong command of the English language.
- Keen to join us on a wild ride and have a lot of fun doing it.

Nice to haves:

- Experience with popular ML tools such as YOLO, Stable baselines or Huggingface LeRobot
- Experience with software tooling such as git, cmake.
- Capable of showing initiative and being self-reliant.
- Prior work with autonomous driving or robotic systems.

ABOUT US

As the world's cities undergo major changes, there is a strong need for efficient transport. We see an opportunity for the inland waterways to play a key role in city mobility and logistics. By bringing autonomy to vessels, Roboat will transform the movement of people and goods across the water.

Operating at the intersection of design, robotics, and software engineering, Roboat is a growing business that has a place for anyone who is highly driven, enthusiastic to learn, and occasionally enjoys nautical theme songs. Some of our current projects include:

1. A fully autonomous, electric, and 3D printed ferry.
2. Retrofitting the Roboat system onto a cutting-edge demonstration vessel.
3. An autonomy system for a logistics barge operating in the heart of Amsterdam.
4. A situational awareness safety system for the iconic GVB ferries of the Amsterdam IJ River.
5. We are working hard to establishing additional assignments in other cities – think Venice, New York, the Maldives, Helsinki, Seattle, etc.

Come help us create the most incredible autonomous vessels around.

Want to know more about us? Check out: www.roboat.tech

INTERVIEW PROCESS

Excited? Even if you don't meet our exact requirements, we're always on the lookout for great people from all backgrounds – so tell us why you're a fit!

Send us an application

If reading this vacancy makes you feel like you're ready to set sail; cast off; jump on board — or any other ship metaphors for joining the team — then whoever you are or wherever you come from, we encourage you to apply.

Send us a short cover letter and a CV or portfolio of your past adventures relevant to this vacancy and let us know what you'd love to do in the future.

Interview

Typically interviewing with us takes about three weeks from the first introduction call. The steps:

1. Quick introduction video call or call.
2. One-hour onsite interview to get to know you, your motivations, and your work a little better (we can also facilitate an online interview if necessary).
3. We will let you know our decision.

Send your application to join@roboat.tech