



Embedded Systems Engineer

Blackswan Space is building time critical software for complex missions – a cornerstone for enabling the future space economy. With the help of the European Space Agency, our team is developing a novel platform for autonomous navigation for small satellites, leveraging computer vision and neural networks.

We are looking for naturally curious minds with a can-do practical attitude eager to satisfy their inner astronaut...

If you're keen on harnessing the current advancements in deep learning, computer vision and embedded systems to solve open problems in object detection/tracking, pose estimation, and real-time navigation in space, while also having a knack for working with real hardware, we would love to hear from you !

Job Description

As an instrumental part of our engineering team you will:

- Working with the best researchers in the world, design, implement, benchmark and validate object detection, tracking and pose estimation algorithms to equip satellites with real-time awareness of their surroundings.
- Refine and optimize existing models for low latency on embedded hardware.
- Lead laboratory testing campaigns to validate and verify the algorithms for real use cases.

Job Requirements

- 5+ years developing embedded systems software for time critical applications.
- 2+ years of experience designing and implementing deep NN architectures (convolutional, transformers) using deep learning frameworks, e.g. TensorFlow, PyTorch.
- Strong understanding of machine learning algorithms & principles.
- Demonstrable experience developing and deploying models using at least one deep learning framework.

- Demonstrable understanding of the current features and limitations of popular deep learning frameworks.
- Proficiency with C++ and Python.

Assets

- Previous experience working in the space industry is a strong plus
- Familiarity with CPU/GPU architectures, numeric libraries.
- Familiarity with the CUDA toolkit.
- Experience with computer vision libraries such as OpenCV.

Job Location: Vilnius old town, Lithuania

Employment Type: Full time

Working at Blackswan Space - What's in it for me?

- Have the ability to work with an extensive network of global partners to solve problems that have not been tackled yet
- Flexible working hours and competitive salary
- Work alongside individuals who share your values and are passionate about space
- Ability to work on projects that match your passions with significant career growth potential

To Apply: Please send your CV to info@blackswan.ltd