

Deep Learning Engineer Intern - 4D Computer Vision & Neural Rendering

Your tasks

We are looking for an intern to advance our capabilities in 4D scene reconstruction. In this role, you will research and implement novel view synthesis techniques to generate photorealistic, temporarily consistent digital twins of dynamic road environments. This work directly impacts the training and validation of our autonomous driving perception stacks.

Your tasks:

- Develop algorithms to reconstruct moving objects and deformable scenes from multi-view automotive data
- Build robust pipelines for novel view synthesis, 4D data labelling, and synthetic data augmentation
- Implement high-performance Python code using PyTorch to integrate research prototypes into our simulation framework
- Apply advanced linear algebra and 3D geometry principles to solve complex projection and reconstruction problems

Your profile

- Ongoing Master's or PhD (or BSc with relevant experience) studies at a Hungarian university for at least 1.5 years in a technical area: Computer Science, Robotics, Mathematics, or a related area
- Proficiency in Python and PyTorch
- Strong background in Deep Learning and Computer Vision, specifically in neural rendering (NeRF, 3DGS) or multi-view geometry
- Rigorous understanding of Linear Algebra (matrix factorization, coordinate transformations, optimization)
- Good command of English language

Nice to have

- Familiarity with automotive sensor data (LiDAR/Camera fusion).
- Experience with SfM pipelines (e.g., COLMAP)

Including a **reference letter** from your academic supervisor or professional mentor **is appreciated and considered an advantage**.

Our offer

What we offer:

- A supportive and inspiring local team, with opportunities to collaborate across our international development network
- A dynamic and inclusive work environment where you'll be supported in taking on impactful tasks as you develop your skills
- A dedicated mentoring program, giving you direct access to



Job ID

REF6961Z

Field of work

Information Technology

Location

Budapest

Legal Entity

**AUMOVIO Autonomous Mobility
Hungary Kft.**

experienced colleagues and hands-on guidance in a collaborative team setting

- A new and modern office in the heart of Budapest (near Calvin square)

Ready to take your career to the next level? The future of mobility isn't just anyone's job. Make it yours! **Join AUMOVIO. Own What's Next.**

About us

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.