

3D Computer Vision Engineer 3DCVE2020b

We are looking for people passionate about 3D vision to join in and help us build tools for 3D mapping indoor and outdoor environments.

If you are interested, please submit your CV and a cover letter in English or Greek at jobs@up2metric.com with reference **3DCVE2020b**.

Job responsibilities

We have an opening for a 3D computer vision engineer, who will work in the context of a research program to:

- Design, implement, evaluate, and test 3D reconstruction algorithms and systems with a focus on SLAM, SFM, multi-view stereo, photogrammetry and sensor fusion (tracking camera, depth sensor, multi-camera rig, Lidar, GPS/IMU)
- Explore novel ways to utilize and integrate different sensors to solve problems in 3D reconstruction of indoors and outdoors environments and run detailed tests to evaluate performance on real world data
- Develop and implement readable, maintainable and efficient production-ready code in Python and C / C++.
- Document work in detail and consistency

Requirements, Desired Skills and Knowledge

- University Degree in Electrical/Electronic/Computer Engineering or Computer Science or related field
- Solid foundation in computer vision; key areas of interest include Structure from Motion, Simultaneous Localization and Mapping, multi-view-geometry, sensors calibration
- Solid skills in Linux environments
- Advance knowledge of English (oral & written)

Nice to have

- Knowledge on machine learning algorithms
- Experience engineering multiview pose estimation systems (SFM, SLAM)
- Experience integrating sensors and devices within ROS
- Experience developing algorithms for dense 3D reconstruction (MVS)

- σελ. 1 από 2 -

- Experience using diverse 3D scene representations (point clouds, 3D mesh models, voxels, etc.).
- Experience with RGBD fusion algorithms
- Experience with Lidar processing algorithms
- Experience in collaborative research projects (e.g. H2020)
- Experience in software versioning tools (Git) and collaboration tool for s/w development
- Experience in translation of end-user requirements into SW requirements

Personal Characteristics

- Analytical skills to solve complex problems with creativity and attention to detail
- Highly self-motivated and eager to learn new technologies and investigate solutions
- Ability to work effectively both independently and within a team
- Strong desire to learn and accept new challenges
- Planning and time-management skills
- Capable to communicate and collaborate with multi-disciplinary research groups in the context of international research and innovation projects
- Flexible to travel abroad for short term periods

What do we provide

- A fun, supportive and engaging environment
- Opportunities to pursue and work on cutting edge technologies
- Opportunity to publish novel research, participate in conferences, and collaborate with partners in academia
- Competitive salary