Algorithm Developer (Student)

Asensus Surgical is currently seeking an Algorithm Developer to join our growing Israel R&D center. We are looking for an MSC/PHD student level algorithm developer to join our R&D team developing the next generation of vision-assisted robotics in the operating room.
This role will develop efficient computer vision algorithms to incorporate into the Senhance robotic system software platform.

Who We Are

As a medical device company, Asensus is digitizing surgery. Utilizing robotic technology to improve minimally invasive surgery in ways that matter to patients, physicians, surgical staff, and hospitals. Our employees are especially passionate about the work they do and thrive in a collaborative environment that fosters creative solutions to complex problems. The work is challenging, but everyone comes to Asensus looking for a fulfilling career, and that's exactly what they find.

What You Bring

- Msc/PhD student in computer science or electrical/biomedical engineering
- Ability to work at least 20 hours per week at a flexible schedule.
- Proven experience in implementing modern computer vision and image processing algorithms and methods.
- Proficient in machine-learning and deep-learning based methods for computer vision
- Experience in Python programming
- Experience with deep-learning libraries including TensorFlow/PyTorch
- Experience with computer-vision libraries such as openCV
- Demonstrated ability to read and understand the relevant literature and research
- Team player capable of working in a multicultural and multi-disciplinary environment involving software engineers, algorithm engineers and physicians in local and remote settings.
- Specific experience in at least one of the following is an advantage:
  - VAN/SLAM
  - 3D reconstruction
  - Stereo imaging

- o   Tracking
- o   Segmentation
- Industrial experience - an advantage
- Experience in a medical device company – an advantage
- Experience in C++ programming - an advantage
- Experience with NVIDIA software tools for implementing algorithms on GPU – an advantage

What You'll Do

- Responsible for the development, implementation and evaluation of computer vision and image processing algorithms

- Understand the system requirements and convert these into usable algorithmic solutions

- Utilize existing research, literature and study of existing state of the art tools to develop best in-class solutions

- Interact with other departments including software engineers locally and remotely in order to incorporate solutions in the Senhance robotic system

What We Offer

- A culture driven to achieve our mission and deliver remarkable results
- Coworkers committed to collaboration and winning the right way
- Quality products that improve the lives of our customers and patients
- Ability to discover your strengths, follow your passion and find your own rewarding career
- Flexible, engaging work environment
- A competitive benefits package

DEI Statement

At Asensus, we believe in contributing to a society that welcomes diverse voices and values differences in lived experiences, culture, religion, age, gender identity, sexual orientation, race, ethnicity, and neurodiversity. We are committed to ensuring this same environment for our employees – a culture where individuals feel safe, heard, and respected. We celebrate the uniqueness of our global workforce and know that only through inclusion, ongoing learning, and partnership can we succeed. Together we are all stronger.

Email resume to:
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