

Cleandrone develops robotic UAVs (drones) and UGVs (rovers) to execute inspection, operation and maintenance tasks in several industries (solar, facilities management, agriculture). We are based near Sant Cugat (Barcelona).

We are looking for bachelor or master's degree students in the robotics, computer science, telecommunications, computer vision or artificial intelligence fields.

Students can chose one of the following internships:

- 1) Robotics engineering, development of high level navigation and control functions using computer vision and sensor fusion for drones autonomously operating within cramped environments. C++, OpenCV/CUDA on Linux and ROS. Embedded systems.

Requirements:

- Studying last year of master's degree in Robotics.
- Interested in enabling autonomous vehicles (drones and rovers).
- Interested in advanced real time control strategies and autonomous navigation in GPS denied areas.
- Thorough theoretical background on sensor fusion, robot localisation and navigation, SLAM, machine learning.
- C++ and/or Python on ROS development experience.
- Linux systems experience.
- Computer vision and neural networks, OpenCV, CUDA.
- TensorFlow or other neural network frameworks.
- Github.
- Good English.

- 2) Robotics engineering, real time object detection and localisation based on neural networks. C++, Python, TensorFlow, OpenCV on Linux and ROS. Neural network real time inference on embedded systems.

Requirements:

- Studying last year of bachelor degree or a master's degree in Robotics, Computer Science, Computer Vision, Artificial Intelligence or similar degrees.
- Interested in real time intelligence for autonomous vehicles (drones and rovers).
- Interested on research related to neural networks and computer vision.
- Python, TensorFlow, TensorRT, CUDA. Experience on other AI frameworks like Darknet, Keras, Theano or Caffe.
- C++/Linux/ROS development experience required.
- Knowledge of traditional computer vision algorithms.
- Experience developing on OpenCV.
- Github.
- Good English.

3) Mechanical, electronics and systems integration of UAVs.

Requirements:

- Studying last year of bachelor degree or a master's degree in Aeronautical/Mechanical/Industrial Engineering, Electronics, Robotics or similar degrees.
- Mechanical design and simulation using SolidWorks.
- Electronics integration and basic PCB design and production.
- C++/Python/Linux/ROS desirable.
- Good English.

In any of these positions we offer a flexible working time schedule and economic help.

If interested please send your CV to: [jobs@cleandrone.com](mailto:jobs@cleandrone.com)