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Start date

Flexible

Duration

6 months

Languages

Good spoken and written English levels are required (B2 onwards)

Location

Bristol, England

Bristol is the largest city in the South West of England. It has a reputation for its uniquely urban cultural mix, with thriving creative, legal and financial economies. Bristol also offers access to sporting excellence, a lively nightlife, bars and restaurants aplenty, music diversity and many historical sites.

Are you eligible?

Are you a registered student?

Or

Are you eligible to participate in the Erasmus+ programme?

Benefits

See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

Role

This is a great opportunity for a keen Computer Scientist who wants to gain practical experience in software development, in the exciting world of Drones & Robotics. With emphasis on applying deep learning you will be mentored throughout, and will assist the team to solve complex problems including localization-mapping, navigation and object recognition for autonomous robots. This experience is a must for anyone interested in this exciting field and will be a great addition to any CV.

Tasks

- Assist in designing and training neural network models for various tasks like image recognition, natural language processing, localization and mapping
- Assist robotic software development using ROS and C++ (real time software on the robot)
- Robotic system simulation (Unity3D)
- Maintaining and improving the continuous integration and the deployment process.

Personal Skills

Essential:

- Computer Science, IT related degree or scientific/numerate degree
- High proficiency in C++ programming skills
- Python/numpy/scipy or MATLAB
- Comfortable working across a team with people of different skills.
- Ability to work in a self-directed way.
- Ability to pick up and evaluate new technologies.
- Conduct code reviews and inspections.

Desirable:

- Knowledge of ROS, control systems and alike
- Other branches of AI or machine learning, reinforcement learning, etc.
- Exposure to electronics, 3D printing, physics and physics simulations
- GUI programming (Qt, Java, .NET or similar)

The Host Company

This exciting host company develops and operates Unmanned Aerial Vehicles (UAVs) also known as drones and other related technologies. They custom-build machines for commercial, industrial and scientific purposes. Their passionate focus on research and development means they create technology at the cutting edge of what is possible. They are looking for like minded individuals to contribute to their continued success.