ESPA

Electronic Engineering Internship (XMOEE0205)

Start date
September 2019

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 strong reputation for creativity, digital innovation and social enterprise, and is the home of Oscar-winning Wallace and Gromit and urban artist Banksy. Offering a lively nightlife, bars and restaurants aplenty, musical diversity and many historical sites, in 2017, The Times newspaper voted it 'Best Place to Live in the UK'.

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 fantastic role for an enthusiastic student computer science or electronics student to gain practical experience within this innovative, class leading company. Mentored throughout and reporting to the Acoustic Test Specialist, you will assist in the testing and analysis of speech processing and other sensing technologies, such as radar, which will allow simple consumer products to form an awareness of their environment and the people around them. Working with and alongside multiple disciplines and facing real technical challenges, you will have the opportunity and be expected to learn highly sort after industry skills. If you are interested in a career in this cutting-edge field, then this is an opportunity not to be missed.

Tasks

- Developing a broad base of multi-sensing edge AI technologies, which will be deployed on host's XCORE devices

- Data collection and analysis of sensor data and the informative features that can be extracted from it

- Working with audio and radar systems, conducting experiments in the laboratory, analysing and presenting the results

- Accurately defining test cases and implementing automation

Desired Skills

- A degree in Electronic Engineering or other relevant

- You will have a strong mathematical foundation, understanding Signal Processing algorithms and techniques

- Knowledge of audio or video signal processing will be useful

- Ideally you will have explored with Matlab or Python to gain some hands-on experience

- Acoustic or radio (radar) expertise is highly desirable for this position

- You will have programming skills, ideally C++, and scripting skills that will be useful for automation.

The Host Company

The host company is a market leader in the supply of voice and music processing and control ICs (integrated circuits), to customers including Harmon, Sony, JVC and JBL. They are currently focusing on the development of their next generation and most comprehensive Voice User Interface (VUI) controller solutions for Internet of Things (IoT) devices. Their far field voice interfaces are designed to be integrated seamlessly into any environment and have already been qualified by Amazon for use with Alexa. With substantial financial backing, this company is set to become one of the major players in the audio field.