

Internship Title : Fall & Fatigue detection module integrated into our PPE wearable (device)

Activities

We are looking for a passionate intern completing her/his Bachelor or Master's degree in the field of Electronics, IoT, Mechatronics for AirBliss+®. We developed the most comfortable smart breathing mask for prolonged hours and daily usage. We have launched an R&D project to develop a Fall & Fatigue detection module aided by Machine Learning integrated into our PPE device (Powered Air Purifying Respirator - PAPR). We have developed a first validated version. We would like to improve the features by allowing Machine Learning to optimize the algorithm on the device directly. Also, we will pursue the development the module dashboard to track the KPI's of our solution.

Training goals

- Project management
- Design to cost
- Data analysis & reporting

Competences to be acquired

Teamwork IoT Sensor integration into wearable electronic board Real-time system Machine Learning

Technical and personal skills

Experience in Accelerometer, Gyroscope sensor, Electronics, Scientific experimentation

Software Skills

- Embedded software in C language preferably in one environment such as Arduino preferred
- Python language preferred
- Experience in managing DSP is a plus
- Experience in developing Dashboard (Elastic technology) is a plus

Language Skills

Professional English

Target subject areas

AUTOMATION AND CONTROL ENGINEERING COMPUTER SCIENCE AND ENGINEERING

ELECTRICAL ENGINEERING
ELECTRONIC ENGINEERING
ENGINEERING PHYSICS
MATERIALS ENGINEERING AND NANOTECHNOLOGY
MATHEMATICAL ENGINEERING
MECHANICAL ENGINEERING
MOBILITY ENGINEERING
SAFETY AND PREVENTION ENGINEERING IN THE PROCESS INDUSTRY
TELECOMMUNICATION ENGINEERING

OFFER DETAILS

The internship is located in our lab in HighTech Campus in Eindhoven.

Duration: preferably 6 months, min. 3 months.

Type: Student, Part time – max. 20 hours per week or full time – max. 40 hours per week.

Apply by sending your CV to info@airblissplus.com