ABLE Assistive Biorobotic Low-cost Exoskeleton

ABLE is a low-cost, lightweight and easy-to-use robotic exoskeleton that allows spinal cord injured people to walk again. It has been developed by the ETSEIB research group in Biomechanical Engineering (biomec.upc.edu) and will reach the market through an spin-off. We are looking for motivated students with interest in new technologies to develop the commercial prototype. More info at: www.caixaimpulse.com/en/projects/-/caixaimpulse/project/ABLE

FIRMWARE/SOFTWARE PROGRAMMER

Tasks to perform

• Implement improvements to the microcontroller code
• Change communication protocol from USB to CAN (*)
• Improve the graphical user interface (PC and App)

Requirements

• Master student in Informatics Engineering, Telecommunications Engineering, Automatic Control and Robotics or similar
• Programming knowledge (C++, Python)
• Experience programming microcontrollers (Linux if possible)
• Experience with repositories (GitHub) will be appreciated
• Proactive, dynamic and entrepreneurial profile

What do we offer?

• Flexible working hours (25h weekly)
• 500 € monthly salary and possibility of joining the future spin-off

Contact:
 send CV and motivation letter to Alfons Carnicero (alfons.carnicero@upc.edu) before 31st January

* Together with a specialized company