Pierre Kibleur

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Age 25 (Feb 17th, 1993) • French

Education

EPFL, Swiss Federal Institute of Technology, Switzerland
Master in Computational Science and Engineering 2015–2018
Bachelor in Physics 2011–2015

ULB, Brussels University, Belgium
Full year Erasmus+ exchange, Physics 2014–2015

Lycée Saint-Michel de Picpus, Paris, France
High school diploma in Sciences, with honors 2011

Experience

G-Therapeutics, Lausanne, Switzerland
Feb-Sep 2017

Programming of a 3D robotic body weight support system for gait rehabilitation. My main tasks included writing the safety and the state machine parts of the controller, creating a Graphical User Interface and integrating IMUs, conform to Medical Software norms. Moreover I designed and implemented rehabilitation exercises, and as we had gotten access to Microsoft's Team Foundation Server, I decided to extend my contract in order to automatically link it to the code's unit testing.

Academic projects

EPFL, Biorobotics Laboratory, Lausanne (30 ECTS - Master Thesis)
Sep-Jan 2018

Biomechanical model of the primates' upper limb: design of stimulation protocols for the recovery of reaching movements in tetraplegia.

EPFL, Distributed Intelligent Systems and Algorithms Laboratory, Lausanne (8 ECTS)
Sep-Jan 2017

3D bio-inspired odor source localization algorithm for airborne plumes. Project presented at the International Conference on Intelligent Robots and Systems. Ref: EPFL-CONF-231021

EPFL, Interdisciplinary Aerodynamics Group, Lausanne (8 ECTS)
Feb-Jul 2016

DSMC-CFD coupled simulation of the Stardust capsule's atmospheric re-entry, analysis of the heat diffusion through the Thermal Protection System.

Technical skills

Programming: C/C++, Matlab, Bash, Python, CUDA, Basic
Office: LaTeX, Pack Office, Visio
Libraries: Pandas, Scipy, tikz, TwinCAT, OpenSim
Usual environments: Linux, Vim, Jupyter, Atom, Visual Studio

Academic involvements

Tutoring: Analysis III for physicists Sep-Dec 2016
Class representative: CSE section 2015-2016

Languages

English: Advanced (C1)
Russian: Basics (A2)
French: Native speaker