Pierre Kibleur

Ph.D., Engineer in CSE

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French nationality . Driving license B

With hands-on experience on complex materials and robotics, my ambition is to actively participate in the deployment of automation and technical solutions in the naval industry



Experience

 UGent Center for X-ray Tomography (UGCT), Ghent, Belgium 3D Data analyst Consulting on industrial R&D, using non-destructive testing to assess quality, product development, and 	2022-present
 Processes. Communication with customers and project management. Group promotion at several events Researcher Dynamic testing of fiber-based composite materials with quantitative image processing. Presenter at 6 international conferences; presentation award at ICTMS2022. Gave training on robotics and deep learning 	2018–2022
Confinis AG, Geneva, Switzerland • Consultant (4 months internship) Writing regulatory compliance of joint prostheses in preparation of marketing application dossiers	2018–2018
University of Fribourg, Fribourg, Switzerland • Scientific support staff Robotic modeling and decoding of the primate arm to parameterize a therapeutic brain-computer interface	2018–2018
G-therapeutics, Lausanne, Switzerland • Roboticist (9 months internship) Programming the Rysen medical robot for gait rehabilitation: defined the C++ control architecture, implemented training tasks for patients, and integrated embedded IMU sensors for real-time state estimation	2017–2017
 École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland Teaching assistant Providing support in mathematics for a group of 20 second-year physicists 	2015–2016
Education	
 Ghent University, Ghent, Belgium Ph.D. Bio-science Engineering; thesis on "4D X-ray micro-tomography investigation of water-induced swelling of wood fiberboards" 	2018–2022
 EPFL, Lausanne, Switzerland M.Sc. Computational Science and Engineering; thesis on "Bio-mechanical model of the primates' upper limb: design of stimulation protocols for the recovery of reaching movements in tetraplegia" 	2015–2018
B.Sc. Physics; Erasmus+ exchange at ULB, Brussels	2011–2015

Competencies

English/French: Fluent

Russian/Dutch: Limited proficiency

Coding: C/C++, Python, Matlab, Bash, shell, CUDA, Basic, C#, LaTeX

Libraries: Pandas, Scipy, scikit-image, OpenCV, TwinCAT, Keras, PyTorch, TensorFlow, numpy **Software:** Git, Dragonfly, Avizo, VGStudio Max, Fiji, Abaqus, Solid Works, Fusion 360, Visio **Environments:** Linux/Windows, Vim, Atom, Visual Studio, Jupyter, Overleaf, Microsoft Office Suite **Soft skills:** Project management, Multidisciplinary collaboration, Creativity, Problem solving

Communication: Author of 24 peer-reviewed articles, regular presenter at conferences and meetings

Languages Hobbies

Competition rowing: twice Belgian champion Sailing, flute and saxophone