

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

2022–present

Consulting on industrial R&D, using non-destructive testing to assess quality, product development, and processes. Communication with customers and project management. Group promotion at several events

- Researcher

2018–2022

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

Confinis AG, Geneva, Switzerland

- Consultant (4 months internship)

2018–2018

Writing regulatory compliance of joint prostheses in preparation of marketing application dossiers

University of Fribourg, Fribourg, Switzerland

- Scientific support staff

2018–2018

Robotic modeling and decoding of the primate arm to parameterize a therapeutic brain-computer interface

G-therapeutics, Lausanne, Switzerland

- Roboticist (9 months internship)

2017–2017

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

École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

- Teaching assistant

2015–2016

Providing support in mathematics for a group of 20 second-year physicists

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

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 21 peer-reviewed articles, regular presenter at conferences and meetings

Languages

English/French: Fluent

Russian/Dutch: Limited proficiency

Hobbies

Competition rowing: twice Belgian champion

Sailing, flute and saxophone