Pierre Kibleur

Ph.D., Engineer in CSE

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French nationality • Driving license B

Having hands-on experience in materials and robotics at large, 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. Group promotion at several conferences and seminars. Lecturer on "Advanced applications of deep learning for X-ray CT"

- 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 prosthetics 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: C++ control architecture and implementation

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. Bioscience 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 "Biomechanical 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 24 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