Paul Prevel

PERSONAL DETAILS

Birth	December 26th, 1994 (26y)
Mail	paul.prevel@protonmail.com

EDUCATION

MSc in Micro-engineering 2017-2021

EPFL

Specialization in Robotics, minor in Computational Neuroscience. Focus on machine learning, mobile robots and optimization methods.

SKILLS

Languages	French/Spanish (native), English (advanced)
Programming	Python, C++, Matlab
Software	ROS, Webots, Gazebo
Tools	Linux, Git, Bash

ACADEMIC PROJECTS

3D vision for a robotised wheelchair able to cross obstacles 2021

Master thesis (EPFL/Biorob)

Obstacle detection and crossing for a legged-wheeled robot, motivated selection of a depth sensor and real world experiments (Python, C++, ROS, Webots)

Human locomotion model 2019

Semester project (EPFL/Biorob)

Sensitivity analysis and optimisation of a bio-inspired controller for human locomotion in order to mimic pathological gaits (Python, Webots)

Human robot interaction in human aware navigation 2018

Semester project (EPFL/DISAL)

Implementation and testing of high level interactions on a robot with socially aware navigation planner (Python, ROS, Webots)

WORK EXPERIENCE

Intern 2019-2020

GaitUp, full-time (sept-feb)

Online estimation of running and swimming performance metrics, with a wrist worn IMU sensor (Python)

Intern 2018

EPFL (DISAL), full-time (jul-oct)

Extension of the academic project on human robot interaction, with task allocation for multiple robots and moving humans. Experiment design to evaluate the performance of the implemented behaviors with human subjects (Python, ROS, Motion capture)

EXTRACURRICULAR

High level music practice (clarinet), competitive running and mountain hiking