

Paul **Lesur**

Software Engineer

Interests

Algorithm Design Compiler Development

Artificial Intelligence Project Management System Programming Software Optimization

Address

53115, Bonn Germany

Contact

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Experience

2023-04 **Systems Developer** TOMRA Sorting GmbH (Current)

Development of Calibration Tools for the AutoSort machines, Enhancing System Security (NIS2), porting code to Linux, and general performance

improvements.

2022-02

PhD Student in Control and Planning

Kaiserslautern, Germany

Koblenz, Germany

2023-02 TU Kaiserslautern

> Research on Path Planning and Control for Multi-Agent Systems, applied to Autonomous Driving (MIP using Gurobi, MPC / NLP using CasADi, DL using PyTorch, planning in Rust).

Links

lesurpaul.fr github.com/lesurp linkedin.com/in/paul-lesur

paul.lesur59@gmail.com

2020-10 C++ Software Engineer

Croix, France

2021-12 Exotec

> Real-Time control of up to 200 mobile robots for an Automated Storage Solution (Path Planning, Error Recovery in C++).

Lead Engineer on the largest system deployed to date.

Programming Languages

Rust C++ Python Bash SQL

Computer Vision Research Engineer

Kaiserslautern, Germany

DFKI

Research on visual SLAM (ORBSLAM2, VINS), Tracking, Image Segmentation, Object Recognition, using: CNNs, EKFs, OpenCV, Eigen, q2o, ROS, PyTorch (Al/Machine Learning framework).

Languages

French Native English C2 German B2 Spanish B1

2017-09 **Software Engineering Consultant**

Toulouse, France

2017-12 Alten Sud-Ouest

C++ Consultant, worked with Orange on their embedded C++/Qt software.

2016-05

2018-01

2020-10

C++ Software Engineer

Villeneuve D'Ascq, France

2016-07 INRIA

> Pose Estimation of an indoor blimp (using OptiTrack and onboard IMU/camera), with remote control, in C++ (OpenCV), Python, and Mat-

lab/Simulink.

Other Skills

Software Engineering Algorithm Development Computer Vision Control Engineering Optimization Machine Learning Linux ROS / ROS2 Eigen, OpenCV CasADi Gurobi PyTorch

VCS (git)

Education

2016-17 **Academic Exchange, Computer Science**

Huntingdon, PA, USA

Lille, France

Juniata College

Software Engineering and IT Security

Project Management

2012-17 Master in Computer and Electronics Engineering (M.E)

ISEN Lille

Mathematics, Physics, Engineering, Image/Signal Processing, Comput-

ing, Electronics (Microcontrollers)