

Izzat Mukhanov

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Location: Paris, France

Summary

- Software Engineer with 8+ years of full-time professional experience
- Passionate about tackling and simplifying complex problems
- Strong analytical, organizational and communication skills
- Master's degree in Robotics, Control, Applied Informatics from [ÉCN](#) 2012 – 2014

Work Experience

- **Amazon:** Software Engineer & Tech Lead 2016 – now
Prime Air: Autonomous 30 min delivery system by drones
Successfully designed, implemented and delivered:
 - Vehicle simulator that supports time accelerations.
 - Scalable backend for thousands of vehicles.
 - Vehicle-agnostic autonomous path planning system.Significant contributions:
 - Influenced multiple teams on testing framework design and implementation.
 - Simplified various flows/architecture/implementations across Prime Air organization.
 - Deployment, maintenance and improvement of multiple AWS web services.
 - Coverage analytics platform to choose areas of operations.
- **INRIA:** Software developer 2014 – 2016
Development and distribution of a cross-platform library [libpointing](#)
to get raw events from pointing devices and apply transfer functions
- **SSD software solutions:** Mobile developer 2011 – 2012
iOS applications and Cocos2d games

Professional Skills

- Knowledgeable:
 - **Java, Python, C++**
 - Distributed systems, AWS ecosystem, Software Design and Testing, DDD
 - Path Planning, Kinematic Modeling, Discrete Optimization, Simulations
- Familiar:
 - Scala, MATLAB, Objective-C, Pharo, C#.NET, PHP, SQL, etc.
 - Kafka, Spark, Websockets, Netty, Protobuf
 - 3D modeling and visualization, OpenGL, OpenCV, ROS (Robot Operating System)
 - Background in Control, Computer Vision, Machine Learning

Miscellaneous

- Master's Thesis on "Pedestrian Detection and Tracking system" [\[thesis\]](#) [\[video\]](#)
- OpenSYMORO: An open-source software for Symbolic Modelling of Robots [\[paper\]](#)
- Fluent in English and French, native in Russian and Uzbek