

Izzat Mukhanov

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Location: Paris, France

Work Experience

- **Software Development Engineer** 2016 – now
 - Kindle: Maintenance of reader applications for Mac and PC (Qt, C++)
 - Prime Air: Autonomous 30 min delivery system by drones
 - Successfully designed, implemented and delivered (used in production):**
 - Highly scalable (multi-threaded) vehicle simulator that supports time accelerations.
 - Vehicle-agnostic autonomous path planning system.
 - Significant contributions:**
 - Improvement and maintenance of multiple AWS web services.
 - Operational (metric reporting, package management system, testing strategy, etc.).
 - Terrain client (to query terrain information for a geographical area) library.

Company: [Amazon](#)
- **Engineer**, developer (C, C++, Python, JavaScript) 2014 – 2016
 - Improvement and development of a cross-platform library [libpointing](#) which allows direct access to the USB-HID pointing devices and can apply different transfer functions to the raw input
 - Creation of *Java*, *Python*, *Node.js* bindings and distribution with *npm*, *apt*, *brew*, etc.

Company: [INRIA](#)
- **Master's Project** (C++, Python, MATLAB) 2014 (6 months)
 - Implementation of Pedestrian Detection and Tracking system [\[thesis\]](#) [\[video\]](#) using Computer Vision and Machine Learning algorithms

Laboratory: [IRCCyN](#)
- **Intern** (Python) 2013 (4 months)
 - Development of [OpenSymoro+](#) (SYmbolic MOdeling of RObots), including 3D visualization and UI using *PyOpenGL* and *wxPython*

Laboratory: [IRCCyN](#)
- **Software developer** (Objective-C) 2011 – 2012
 - Development of client-server applications for iOS and Cocos2D games

Company: [SSD](#)
- **Intern**, software developer (C/C++) 2010 – 2011
 - Low-level API development for Blu-ray disks processing
 - Implementation of the logging system for the project

Company: [ProDVD](#)
- **Intern**, software developer, instructor (C#.NET) 2009 – 2010
 - Application development for book catalogization of the city libraries
 - Database management (Microsoft SQL)

Company: [BePro](#)

Education

- [M.S. in Robotics, Control Engineering, Applied Informatics](#) 2012 – 2014
École Centrale de Nantes
- B.S. in Telecommunications 2007 – 2011
[Tashkent University of Information Technologies](#)

Professional Skills

- Knowledgeable:
 - **Java, Python, C++**
 - Multi-threaded, real-time applications
 - AWS infrastructure
 - Design Patterns, Test Driven Development, Continuous Integration/Deployment
 - Familiar:
 - Kafka, Websockets, Netty, Protobuf
 - JavaScript, Node.js, Three.js
 - MATLAB, Objective-C, Pharo, C#.NET, PHP, SQL
 - OpenGL, OpenCV
 - ROS (Robot Operating System)
 - Theoretical background:
 - Path planning algorithms
 - Math, Optimization, Simulation
 - Computer Vision, Machine Learning, Artificial Intelligence
 - Robot Programming, Modeling and Control
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Miscellaneous

- Highly adaptable in quickly changing technical environments with very strong organizational and analytical skills
- Excellent interpersonal and communications skills
- Life-long learning oriented
- Driver's license
- Publication: [OpenSYMORO : An open-source software package for Symbolic Modelling of Robots](#), 2014 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (355)

Languages

- English - fluent
- French - fluent
- Russian - native
- Uzbek - native

Hobbies

- Following online courses (MOOCs)
- Foreign languages
- Gym and cycling
- Reading