

Izzat Mukhanov

Phone: +33 6 66 51 75 71
E-mail: izzatbek@gmail.com
Location: Lille, France

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](#)
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Work Experience

- **Engineer**, developer (C, C++, Python, Node.js) 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 engineer** (Objective-C) 2011 – 2012
Development of client-server applications for iOS and Cocos2D games
Company: [SSD](#)
- **Part-time** 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
- **Part-time** software developer and instructor (C#.NET) 2009 – 2010
Application development for book catalogization of the city libraries
Database management (Microsoft SQL)
Company: [BePro](#)

Professional Skills

- Knowledgeable:
 - C, C++, Python
 - Cross-platform development, documentation, packaging
 - Design Patterns, Test Driven Development
 - Continuous Integration, Deployment
 - Multi-threaded, real-time applications
- Familiar:
 - JavaScript, Node.js, npm, Three.js, jQuery
 - Matlab, Objective-C, Pharo, C#.NET, PHP, SQL
 - HTML, CSS, Bootstrap, Markdown, Latex
 - OpenGL, OpenCV
 - ROS (Robot Operating System)
 - Programming in Val/V+ for industrial robots
- Theoretical background:
 - Computer Vision, Machine Learning, Artificial Intelligence
 - Robot Programming, Modeling and Control
 - Algorithms and Data Structures
 - Math, Optimization, Simulation

Publications

- [OpenSYMORO : An open-source software package for Symbolic Modelling of Robots](#)
2014 IEEE / ASME International Conference on Advanced Intelligent Mechatronics (355)

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

Languages

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

Hobbies

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