

# Izzat Mukhanov

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Location: Lille, France

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## 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 (8 months)  
Development of client-server applications for iOS and Cocos2D games  
Company: [SSD](#)
- **Intern**, software developer (C/C++) 2010 - 2011 (10 months)  
Low-level API development for Blu-ray disks processing  
Implementation of the logging system for the project  
Company: ProDVD
- **Intern**, software developer and instructor (C#.NET) 2009 - 2010 (13 months)  
Application development for book catalogization of the city libraries  
Database management (Microsoft SQL)  
Company: [BePro](#)

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## 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

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## Publications

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

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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

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## Languages

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

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## Hobbies

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