Izzat Mukhanov

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Location: Paris, 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

Work Experience

- **Software Development Engineer** — 2016 – now
  Cross-platform development and maintenance
  • Kindle: reader applications for Mac and PC
  • Prime Air: simulations, cloud services, traffic management
  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 engineer** (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 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
    - AWS infrastructure
- Familiar:
    - JavaScript, Node.js, Three.js
    - Matlab, Objective-C, Pharo, C#.NET, PHP, SQL
    - 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