

Ali Khoramshahi

Curriculum Vitae

Personal Information

Nationality *Iranian*
Date of Birth *28/3/1990*
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Education

2014–now **Bachelor of Science (Hons)**, *Teesside University-Prague College*, Prague/Czech Republic.
General Computing, First Class Honours
2009–2014 **Bachelor of Engineering**, *Tehran Azad University*, Tehran/Iran.
Specialized in hardware
2009–2005 **High School**, *Alameh Tabatabai High School*, Tehran/Iran.
Math-Physics diploma

Bachelor Project Title

Title *Cargo Loading*
Description This project suggest a solution to resolve cargo planning and path optimization for an external logistic problem.

Experience

- 2015 **C# Developer(back-end and front-end)**, *ZETTABOX*, Prague/Czech Republic.
Zettabox is a cloud storage provider in Europe, application development contains both server side and client side, main tasks I've been working containing following:
- Design and develop RabbitMQ messaging and queuing system.
 - Implementing SignalR Connection for being able to connect to server with various technologies such as WebSocket.
 - Design and implement windows client features including interface(using WPF) ,logic and communication.
 - Resolving the existing problems and debugging current code.
- 2014 **C++ Developer**, *APIARY*, Prague/Czech Republic.
Development the new future and expanding existing functions in Apiary Blueprint, one of the most reliable and well-known web API documentation tool. the task that has been implemented during the period of my contribution includes:
- C-interface implementation of existing function to export the parser into ruby and python.
 - Implementation of late referencing inside the parser.
 - Configuring and fixing Snowcrash on windows.
 - Resolving the existing problems.

- 2013-2014 **Programmers Supervisor**, 2BAAL, Tehran/Iran.
Managing developers group for script writing software.
- 2010-2012 **Developer / Group Supervisor**, ISLAMIC AZAD UNIVERSITY - SOUTH TEHRAN BRANCH, Tehran/Iran.
Development and operating the rescue and quadrotor robots in SURG(StartUp Robotic Group). research and development during this time contained:
- Developing an autopilot for quadrotor using STM32-F103 arm processor's.
 - Designing a system to control robotic arm by human interaction captured by Kinect.
 - Image feature extraction and matching.
 - Developing Remote operator controller for rescue robot over wireless network.
 - Designing a Dynamic topological Model Based on ANN.
 - research and implementation of new algorithm for simultaneous localization and mapping problem.
- 2009-2010 **Offshore C++ Programmer**, PHOTOCORE GMBH, Zurich/Switzerland.
- Development and Testing of cylindrical and spherical panoramic high resolution image Viewer by using Qt, Coin3D and OpenInventor3D engine
 - Developing hardware security lock with HASP flash lock.
- 2008-2009 **Algorithm Designer and programmer**, TAHA PARALLEL PROCESSING, Tehran/Iran.
Development of cross-platform algorithm and GUI for Cargo Loading automate container loading process using Qt.
- 2007-2008 **Internship**, TAHA PARALLEL PROCESSING, Tehran/Iran.
- Development of simple GUI and testing of EYERIS project (Digital stereo plotter for aerial images).
 - Development of data structure for rendering high quality large size image using GDAL

Awards

- 2014 Bursary award from Prague Collage
- 2008 National Astronomy Olympiad - first round

Computer skills

Programming Language

- Basic PYTHON, RUBY ,JSCRIPT
- Intermediate NODE.JS, JAVA, OCTAVE, PHP, SQL,HTML, CSS
- Advanced C#, C and C++ (C++9, C++11)

Other Skills

RabbbitMQ, SignalR, ASP.Net, Qt,Basic CISCO networking knowledge, GIT hub and TFS code management

Qualifications

- GRE (General) Verbal 144, Quantitative 156, Writing 3.0
- IELTS (Academic) Listening 6.0, Reading 6.5, Writing 6.0, Speaking 6.0
- Machine Learning online course provided by Stanford University (ml-class.org)
- IranOpen 2012 RoboCup Iran Open 2012 competition and symposiums certification of participation

Languages

- English **Fluent**

Research Interests

Microprocessor Programming, Robot Design, Machine Learning, Computer Vision;
Particularly below topics:

- Remote systems and cloud base services
- Micro-Service architecture using messaging and queue systems
- External logistic automation systems
- Image and video analysis for automation robotic navigation
- Developing neural network to create auto pilot for complex flyers
- Automatic Understanding of physical movements of user to control robots.
- Point cloud analyzing: automatic and supervised semi automatic feature extraction from point cloud.
- 3D point cloud extraction from video sequence.

Personal Hobbies

I like hiking in nature - literally off the beaten path - and listen to blues and country music. I enjoy semi-professional photography(last year I had my very first art work gallery in Tehran). I also play the electric guitar.