Ali Khoramshahi

Curriculum Vitae

Personal Information

Nationality	*Iranian*
Date of Birth	*28/3/1990*
e-mail	al_kh31@hotmail.com
web-page	al-kh.me

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

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 by me 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	java, Octave,C#, PHP, SQL,html, CSS
Advanced	C and C++ (C++9, C++11) five years of professional experience

Other Skills

Basic Cisco networking knowledge, `GIT hub` 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**	
Persian	**Mothertongue**	
French	**Basic**	*Basic words and phrases only*

Research Interests

Microprocessor Programming, Robot Design, Machine Learning, Computer Vision, GIS and Remote Sensing; Particularly below topics:

○ 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.
○ Conceptual feature extraction from image.
○ 3D building construction by using stereo vision.
○ 3D modeling.
○ Bioinformatics.

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.