Qianqian Zhang

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OBJECTIVE

To begin a career in an organization where I can develop professionally and enhance my skills and experience

EDUATION

M.S. in Electronic Engineering, University of Southern California GPA: 3.50/4.0 May, 2014

B.E. in Electrical Engineering, Century College, Beijing Univ. of Posts & Telecoms GPA: 86/100 Aug, 2011

Courses:

- Introduction to Programming System Design
- Computer System Organization
- Digital Signal Processing
- Foundations of Artificial Intelligence
- Introduction to Fourier Optics
- Speech Recognition and Processing for Multimedia
- Magnetic Resonance Imaging and Reconstruction
- Introduction to Digital Image Processing
- Advanced DSP Design Laboratory

SKILLS

- Programming languages: C / JAVA / Matlab / MIPS Assembly / HTML / CSS / JavaScript / jQuery / SQL
- Familiar with Linux / Unix environment
- Experienced with OpenCV, Git
- Software: Photoshop / Matlab / Eclipse / Visual Studio / Code Composer Studio / Latex

WORKING EXPERIENCES

Software testing in ChinaEPG Oct. 2011-Feb. 2012

Set Up testing process management platform; determined the proper test plan and test case; finished related test reports

Network Managemant Assitant Feb. 2008-Jan. 2009

Managed and maintained computer labs, mainly focused on distance control, malfunction maintenance and system updating

ACDEMIC PROJECT

Real-time Gesture Recognition and Rendering, Tool used: C, Code Composer Studio, DM 6437 Dec. 2013-May 2014

Receive image data from camera and programmed to preprocess the initial gesture, locate the palm and label five fingers on DSK6437. Recognize different gestures by using hand features; Render cartoon figures by rotating or warping according to gestures' demands and display the result image on monitor in real time.

Digital Image processing projects, Tool used: C, Matlab Sept. 2013-Dec. 2013

Include practical implementation of image manipulation, enhancement, noise removal, edge detection, special effect filters, morphological processing, digital half-toning, spatial warping, facial warping, texture analysis and segmentation, optical character recognition, and image segmentation.

Digital Signal Processing Projects, Tool used: MATLAB Feb. 2013-May 2013

Digitally Restoring Distorted Waveforms via Equalization: Simulation of restoring distorted signal by using equalizer with different parameters; analysis the influence of these parameters

Tracking Spacecraft Signals during Entry, Descent and Landing with Digital Spectrum Analysis: Using Short Time Fourier Transform and different window function to perform an adaptive frequency tracking schemes

Application of Different Search Algorithms in Maze Solving Problem, Tool used: Java Feb. 2013

Implement breadth-first search (BFS), depth-first search (DFS), Beam search and A* search for solving a maze.

Simulation Study of Rake's Receiving Technology in WCDMA System, Tool used: MATLAB Oct. 2010-June 2011

Compared and analyzed combining performance of three diversities and combining modes (maximum ratio combination, equal gain combination and selective diversity combining); simulated RAKE receiver using adopted 3GPP-recommended models.

Library Management System Design, Tool used: C July 2008

To set up a library management system, and be able to inquire, type in and delete book information.

HONORS & AWARDS

Meritorious Winner (Top 13%), America Undergraduate Mathematical Contest in Modeling (MCM) Feb, 2011

Second Prize in the 7th Mathematical Contest in Modeling in North Jiangsu Province 2011

First Prize at the second stage of "ScienceWord Cup" Network Challenge in Mathematical Modeling 2010