

Chonghao Ju

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Objective

Seeking full time job where background in computer science, back-end development, computer vision and digital system; available after December 2015;open to relocation.

Education Background

09/2014-12/2015(expected) The Ohio State University (OSU), Columbus, OH

Major: Computer Engineering, School of Electrical and Computer Engineering

Expected degree: M. S. in Electrical and Computer Engineering

09/2010-07/2014 Hefei University of Technology (HFUT), Hefei, China

Major: Computer Engineering, School of Electronic Science & Applied Physics

B. S. in Electrical and Computer Engineering

Internship

Amazon co., Ltd, Seattle, United States 05/2015-07/2015

- ◇ In the group of Consumer Website, Customer Behavior.
- ◇ Responsible for design and develop a back-end tool for the whole group to do local testing of the whole processing chain using Java and Linux, and a front-end UI using Ruby on Rails.
- ◇ Proposed A Processing Simulator Tool and a UI for Consumer Website.

Channelsoft Technology co., Ltd, Hefei, China 08/2013-12/2013

- ◇ Developed a software together with the whole group to manage customers' lives in the platform of Channelsoft Cloud Phone.
- ◇ Responsible for developing a test tool for the accuracy of the map location using Java.
- ◇ Proposed Life Guide App in Channelsoft Cloud Phone.

Individual Project

Human Detection and Tracking Tool on Robotics 1/2015-present

- ◇ Responsible for designing algorithms to detect human feature from video stream and tracking them.
- ◇ Used HOG algorithm to detect human, then designed a Particle Filter in OpenCV(C++) to get people tracked accurately and quickly in real-time.

Track UAV (Unmanned Aerial Vehicle) and UGV by QR code 08/2014-12/2014

- ◇ Designed and Developed a filter for sensor to get smooth signals filtered from harsh signals transmitted from other objectives.
- ◇ Responsible for developing algorithm based on ARToolKit to track UGVs using C++.
- ◇ Proposed a software from which the accurate position coordinate and orientation of multiple UGVs could be recognized, processed and then sent out.

Optimization of System On Chip (SoC) Testing Method, 01/2014-07/2014

- ◇ Designed algorithms and transistor structure for SoC to reduce testing time.
- ◇ Responsible for implementing the algorithms on SoC using C/C++.
- ◇ The testing time has reduced a lot with the proficiency increased for SoC testings.

Bicycle GPS positioning and Security Alarm System, 08/2013-07/2014

- ◇ Designed a GPS based localization system on single-chip microcomputer (SCM).
- ◇ Responsible for implementing GPS receiving instrument on SCM and transmitting GPS data to SCM.
- ◇ Proposed FPGA-based Bicycle GPS Positioning and Security Alarm System.

Qualification

Coursework: Computer Architecture and Design(Assembly Language/Linux/Processor Design), Real-time Robotics(Matlab), Project Management, Digital Signal Processing, Advanced Computer Design(NOC multi-processor communication), Data Structure and Algorithms, IC Testing(Arduino, TI ASLK), RT-Rendering(WebGL,OpenGL,HTML,Javascript).

Solid understanding of Java, Ruby on Rails, Git, HTML, Javascript, CSS, C, C++,MATLAB, HFSS, Microsoft Office, Html, WebGL, GLSL, Linux, Assembly language.

Knowledge of Python, AutoCAD, Quartus, Modelsim, Eclipse, Multisim, VB6.0, PSPICE

Fluent in English and Chinese