

# Dan SHAO

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Current Address: 2F3 28 Marionville Rd, Edinburgh EH7 5TX, UK

Date of Birth: 29/07/1983 Gender: Female Nationality: Chinese

## Education

### **Oct 2006 – Current Master in Vision and Robotics (will graduate in June 2008)**

Jointly awarded and studied at Heriot-Watt University (Scotland), University of Girona (Spain), and University of Burgundy (France).

- Two year English-taught Research Master Program studied in UK, Spain, France
- Scholarship of 21,000€ per year financial supported by European Union Erasmus Mundus Program
- Work and study with 26 research members selected from 15 countries.
- Required to work on multi research projects with high technique standard under strict time deadlines
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### **Oct 2002 -June 2006 Bachelor in Software Engineering, Zhejiang University, China**

- First Class Honor, GPA 3.67 out of 4.0, in this top 3 prestigious Chinese university
- Main Courses and Grades (out of 100):

Linear Algebra (94) Programming in C (90) Probability & Mathematic Statistics (82)

Discrete Math (78) Algorithm & Data structure (92) Physics (84) Database System (82) Internet Programming (81) Compiler Technology (87) Operating System (84) Software Engineering (88) Advanced Java (84)

## WORKING EXPERIENCE

### **Internship in State Street Bank IT center (SSZUTC), China (Aug.2005 – Sep 2006)**

Project Aimed to build website to provide a single point of access to the full range of content, products, and services offered by State Street Bank.

- Technologies implemented with J2EE, JSP, struts, spring, UML, SQL, Portal, Model-View-Controller (MVC) architecture
- The full application had a team of 23 programmers. I managed sub-team of 3 other programmers to do the function of accounting management.
- Requirement Analysis directly with clients
- Get involved with whole software development life cycle of this project
- Much of the code I wrote was reused in several other project groups

## KEY PROJECTS

**Robot Learning**, University of Girona, Spain (June 2007- July 2007)

Implement a Reinforcement Learning algorithm to learn a target following behavior. The algorithm is the Q-learning algorithm. (*Simulate in Matlab*)

**Image Processing Tool Software**, Heriot-Watt University , UK( Nov 2006 – Jan 2007)

Realize Functions of the software: image rotate, Image resize, Edge Detection, Blur Image with various filters, (*Program in C++ / Linux*)

**Pattern Recognition -Pascal Project** University of Girona, Spain (April 2007- July 2007)

Extract main features of images, train classifier for pattern recognition systems, and then classify new image. *Program in Matlab*

**Cardiac Image Processing** France, (January 2008 – February 2008 )

Propose a semi-automatic method for the detection of the left ventricular endocardial and epicardial contours on each heart image. *Program in C++, Matlab*

**Image Restoration**, University of Heriot-Watt, Scotland (Feb 2008 – June 2008)

Apply Interval Analysis into Image Restoration. It is a creative research method with high mathematic requirement. *Main Program in C++*

## TECHNICAL SKILLS

Programming & Modeling Languages:

-C, C++, Matlab,Java, JSP, XML, UML, SQL, JavaScript

Platforms and Technologies

- Visual Studio, Eclipse, IBM Rational, Win2000 Server, Win32 API, Apache/Tomcat, SQL Server 2000, MySQL,

## Honours and Activities

- Receiving a scholarship of Euro 21,000 per year from European Union Erasmus Mundus Program
- Awarded with first prize scholarship in Zhejiang University for being among the top 10% students
- First prize of “JiDi” Scholarship awarded by Software College of Zhejiang University/ 5000 RMB (500 euros)
- Won the title of “Outstanding Class Representative” in 2005 in Zhejiang University in 2006

## Language and Interests

- Chinese (mother language), English (Fluent), Spanish (Basic Knowledge)
- Interested in traveling, photograph, Hiking or other outdoor activities.