

GEREMY HEITZ

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Experience

Vision Algorithms Scientist 2007-present **Qylur Security Systems**, Palo Alto, CA

- Developed an automatic bag inspection system for detection of threats in bags using X-ray and chemical sensors.
- Researched improvements in segmentation of projection X-ray images.

Research Assistant 2004 - present **Stanford University**

- Explored the use of visual context in systems to improve object detection and multiclass image segmentation.
- Studied object recognition methods in 2D and 3D.
- Utilized graphical models and probabilistic methods to learn and infer the presence of various objects in images.
- Investigated maximum-margin methods for joint classification of large sets of correlated data.

Researcher Summer 2006 **Riya, Inc.**, San Mateo, CA

- Designed a prototype image clustering system for searching, browsing, and organizing image collections.
- Developed a text-based search to supplement an image-based search engine for the shopping website www.like.com.

Course Assistant 2006-2008 **Stanford University**

- Computer Science 294a: Research Projects in Scene Understanding
- Computer Science 228: Probabilistic Models for Artificial Intelligence

Research Assistant 2003 - 2004 **Stanford University**

- Created statistical shape models from spinal CT images for the Department of Neurosurgery.

Software Engineer Summer 2001 **Trilogy Software**, Austin, TX

- Created a sample user-interface application to demonstrate the capabilities of the Trilogy Contact Center system.
- Standardized the user-interface platform of the Contact Center application.

Programmer Summer 2000 **Distrosoft LLC**, McLean, VA

- Designed and implemented web-based software solutions using ASP, CGI, COM objects and C++ with Microsoft Foundation Classes.

Software Aide 1997-1999 **Raytheon**, Falls Church, VA

- Developed software in conjunction with a Research and Development project into Interference Cancellation in Reconnaissance systems.

Education

2002–present **Stanford University** Stanford, CA

- Pursuing Ph.D. in Electrical Engineering.
- Specializing in Computer Vision and Artificial Intelligence methods.
- Master of Science in Electrical Engineering (Dec. 2003), 4.09 GPA.

1998–2002 **Princeton University** Princeton, NJ

- Bachelor of Science in Engineering for Electrical Engineering (June 2002).
- Concentration in Signal Processing, Certificate in Applications of Computing.
- 3.95 GPA, High Honors.

Skills

Computer Programming in C, C++, ASP, JSP, Perl and Java, knowledge of Unix/Linux, familiarity with Windows XP/Vista, experience with Matlab, VHDL, and knowledge of computer architecture.

Awards and Honors

ECCV Best Paper Award, 2008
Stanford Graduate Fellowship, 2002-2005
Phi Beta Kappa, Tau Beta Pi, Princeton University, 2002
G. David Forney, Jr. Prize in Electrical Engineering, Princeton University, 2002

Activities

SPOT Coordinator, Stanford Pre-Orientation Trips for incoming students
Coach, Foothill NJB Youth Basketball, 6th Grade All-Net
Science Fair Mentor, Eastside Prep School, East Palo Alto

Contacts

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