

Christopher Boehnen

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Education University of Notre Dame

Ph.D. Computer Science	Anticipated Spring 2009	
M.S. in Computer Science	Fall 2005	3.9 GPA
B.S., Computer Engineering	Spring 2003	3.0 GPA

Relevant Experience**Lithophane Software - *Developed Lithophane Design Software* (2006 - present)**

- Wrote lithophane software exclusively licensed to Brynnage Design Inc.

Sandia National Laboratories

Intern Summer 2004, Summer 2005

Grant Research Assistant Academic Year Fall 2004- Spring 2005

- Developed automatic facial feature recognition in multi-modal data for frontal and pose images
- Developed 3D principal component analysis for biometrics

Research University of Notre Dame *Research Assistant* (Fall 2001 – 2003)

- Worked with team to develop software and plan for data capture and storage of the Face Recognition Grand Challenge Database
- Implemented end to end system for 3D scanning to rapid prototyping of dinosaur bones, faces, and sculptures
- Analyzed 3D accuracy and performance of 6 commercial scanners

MedNav.com - *Research and Development Team* (Summer 2001)

- Developed 3D VRML interface, animation, and modeling for web
- Developed client server data communication via the web

Honesty.com - *Server Support, QA Analysis* (Summer and Fall 2000)

- Managed night shift for server monitoring and customer support
- Operated in Level 2 unresolved service analysis and support

Publications

- “Impact of Movement During Laser Scanning on 3D Face Biometrics”, Pending
- “3D Signatures for Fast 3D Biometrics,” Pending
- “Increased Resolution 3D Face Modeling and Recognition From Multiple Low Resolution Structure From Motion Models,” BTAS 2008
- “Mosaicing Videos to Stream Over Multiple Independent Channels,” NOSSDAV 2007
- “3D Facing Recognition Using 3D Alignment for PCA,” CVPR 2006
- “A Multimodal Approach to Frontal and Non-Frontal Facial Feature Detection,” Masters Thesis University of Notre Dame
- “Accuracy of 3D Scanning Technology in a Face Scanning Scenario,” 3D Imaging 2005“
- A Fast Multi-Modal Approach to Facial Feature Detection,” Workshop on Applications in Computer Vision 2005