

- **Stanford Graduate Fellowship (SGF)** 2007-2010
- **National Science and Engineering Research Council Post-Graduate Fellowship (Canada)** 2007-2009
- **Three-times-winner of the Adel S. Sedra Outstanding Student Award** – 2004, 2005 and 2006
- **ECE NSERC USRA Scholarship** – 2005, 2006
- **Walberg Undergraduate Scholarship** – 2006
- **Two-times-winner of the University of Toronto Scholar Award** – July 2004 and 2005

AREZOU KESHAVARZ

PROJECTS

- **Optimal Trading Strategy of an Informed Trader in the Presence of a less-informed Competitor** April 2008 – September 2008
Course: Independent Study with Professor Van Roy
 - Calculating the optimal trading strategy for both traders resulting in a Perfect Bayesian Equilibrium
 - Analyzed and formulated the problem using Dynamic Programming
 - Worked on an algorithm to calculate the PBE numerically using DP
- **Modiface: A Face Fusion Application** May 2006 – May 2007
Course: Final year Design Project
 - Design and implementation of an application to simulate the results of a cosmetic surgery.
 - Research involved face detection, feature localization and feature blending techniques
 - The result of the surgery is simulated using image processing performed in MATLAB.
 - An interactive web-application is designed to display the results, available at **Modiface.com**.
- **Sound Localization: human ears vs. computers** September 2006 – November 2006
Course: Sensory Communications
 - Performed a thorough study of the quality of sound localization as performed automatically by a computer versus human ears.
- **Optical Telephone** September 2005 – November 2005
Course: Analog Electronics
 - Designed and implemented an optical telephone, composed of a transmitter, receiver, and optical transmission unit.
- **Sound and Speech Processing** March 2005 – April 2005
Course: Computer Organization
 - Designed and implemented a system, using **Assembly**, which recorded and performed various operations on sound signals.
 - Some features of this project are up-sampling, down-sampling and reverse playback.
- **Server Design and Implementation** January 2005 – April 2005
Course: Engineering Design II
 - Established an HTTP/1.1 compatible server successfully using C++ through team collaboration in a group of five students
- **FPGA Implementation of Tic-Tac-Toe** November 2005
Course: Digital Circuit Design
 - Created an FPGA version of the famous Tic-Tac-Toe mind game using Verilog.
 - The results of the game were shown on the VGA display, which was controlled using an advanced state machine design.
- **Scanner Robot** March 2003 – May 2003
Course: Secondary School Computer Engineering course
 - Devised and built a scanner robot using Lego Mindstorms ®

SKILLS

- **MATLAB, CVX:** proficient with various toolboxes through previous research and course work
- **JavaScript, HTML, PHP, Perl:** through undergraduate final design project
- **Java, C++, PISCES, PSpice, Orcad Capture, Verilog, Assembly:** through course projects
- **LaTeX, Microsoft Office**

INTERESTS, ACTIVITIES AND COMMUNITIES

- Director of Business Alliance – Persian Student Association at Stanford (2008-2009)
- Vice chair of the IEEE student branch at the University of Toronto (2006-2007)
- Member of the Dean's Circle (2003-2007)
- Member of the Golden Key International Honor Society
- Enjoy photography, running, hiking, and skiing
- Other interests include Literature, Economics, Cognitive Science, and Philosophy of Mind

