

# PAUL Y. OH

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**PROFILE SUMMARY:** Mechanical engineer • Cross disciplines in electrical engineering, applied mathematics and programming. Specialization in quantitative analysis, design, stochastic systems and modeling • Consulting experience from owning and running an Internet-based company in computerized home automation, robotics and sensors • Programming experience in C/C++ and additional languages on PC and Unix operating systems.

## EDUCATION

**Columbia University** New York City, New York, USA

Ph.D. in Mechanical Engineering and Computer Science, October 1999

M.Phil. in Mechanical Engineering, May 1995

- Graduate Research Assistantship from Computer Science and Mechanical Engineering Departments, 1993-1999
- National Science Foundation Travel Scholarship, 1998

**Seoul National University** Seoul, Korea

M.Sc. in Mechanical Design and Production Engineering, February 1992

- Canada Governor's Fellowship, 1989-1992
- Daewoo Heavy Industries (Korea) Research Fellowship, 1990-1992

**McGill University** Montreal, Quebec, Canada

B.Sc. in Mechanical Engineering with Honors (minors in Applied Mathematics and Electrical Engineering), May 1989

- McConnell Engineering Teaching Assistant Award, 1986-1989

## PROFESSIONAL EXPERIENCE

**Bell Atlantic Science and Technology, White Plains, NY USA**, 1998-1999

*C/C++ Software Developer:* Programmed on Unix platform an automated telecommunications network planning system. Artificial intelligence based team project forecasts commercial and residential phone line needs in New York and New England areas and plans network connections. Implemented measurement algorithms for estimating potential savings costs to Bell Atlantic due to automation.

**Central International Law Firm, Seoul Korea**, 1992-1993

*Engineering Consultant:* Reviewed patent applications submitted by US and European companies filing intellectual property in Korea for the firm's mechanical and electronic devices department. Consulted for patent lawyers in engineering validity of claims and the correct Korean and English technical terminology.

**Hyundai Motor Co., and Korean Institute of Science & Technology, Seoul, Korea**, Summer 1992

*Research Engineer:* Designed and developed a control system for automatic car-wheel rim deburring work cell. Project was funded by Hyundai Motor Company and Samsung Electronics. Programmed industrial robot with path planning and force/torque feedback.

**Daewoo Heavy Industries and Korean Agency of Defense Development, Seoul, Korea**, 1990-1992

*Research Engineer:* Designed and developed a ship motion simulator control system with electromechanical hydraulic and pneumatic servos. Built electronic circuits and PC hardware interface cards. Programmed the graphical user interface.

**CAE Electronics Ltd., Montreal, Canada**, Summer 1989

*Design & Software Engineer:* Programmed and debugged software for both flight and nuclear power plant simulators.

**Oerlikon Aerospace, Montreal, Canada**, Summer 1988

*Summer Intern:* Wrote technical report on force/torque tolerances and quality control. Cooperated with subcontractors in design of the laser-guided surface-to-air missile ground vehicle.

## LEADERSHIP POSITIONS & TEAM-WORKING

**Columbia University Mechanical Engineering**, 1996-1999

*Graduate Student Representative:* Initiated graduate socials and seminars by cooperating with deans and networking across departments.

**Korean Canadian Youth Federation**, 1986-1989

*National Chairman:* Led a 5000 member national organization with interests in cultural awareness, social justice and long-term goals.

**Sigma Chi Fraternity, McGill Gamma Lambda Chapter**, 1989

*Initiation Coordinator:* Motivated, educated and nurtured candidates into membership of a national fraternity.

## LANGUAGES & CITIZENSHIPS

Native English speaker • Proficiency in French and Korean • Summer course in Japanese • Both Canadian and American citizenships