Nawee Butsuntorn

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EDUCATION:

Stanford University, *Stanford, CA*

2003–2008 Ph.D., Mechanical Engineering, GPA: 4.0

2001–2003 M.S., Mechanical Engineering, GPA: 3.6

GRE Score (taken in 2000), Math: 780/800, Analytical: 750/800

The University of Sydney, *Sydney, Australia*

1996–2000 B.Eng., Mechanical Engineering (First Class Honours)

B.Com., Majors: Finance and Marketing, Minor: Economics.

EXPERIENCE:

Stanford University, *Stanford, CA*

2003–2008 **Research Assistant:** *Aerospace Computing Laboratory*
Designed, developed & implemented faster methods for solving fluid flows around helicopter rotors or any periodic flow devices such as wind turbine, turbomachinery or windmill. Software is 10–20 times faster than the fastest prototypes, 100 times faster than commercial software. Result of this research will significantly save both cost and time during the design stages of the products.

2005–2008 **Webmaster:** *Aerospace Computing Laboratory* (http://aero-comlab.stanford.edu)
Maintain the website, computer work stations, computer peripherals and software in the Aerospace Computing Laboratory research group. Website is widely used amongst academia and industry researchers for resources relevant to fluid simulation.

Winter 2008 **Course Assistant:** *Advanced Computational Fluid Dynamics*
Prepared all handouts. Prepared and graded all homework and final project. Conducted students consultation (class of 30 graduate students).

Winter 2005 **Course Assistant:** *Partial Differential Equations*
Delivered two 1–hour mathematics lectures to 100+ students. Prepared all handouts and lecture materials. Course was a graduate-level methematics class.

Fall 2002 **Research Assistant:** *Internal Combustion Engine Laboratory*
Studied engines based on hydrogen fuel as part of the Global Climate and Energy Project (GCEP). Studied the feasibility of different forms of hydrogen in regards to safety, cost and transportability.

Toyota Motor Company, Ltd., *Samutprakarn, Thailand*

Summer 2000 **Assistant Engineer:** *Design & Development Department*
Collaborated with senior engineers to investigate the quality of parts tooling production. Analyzed cost-benefit of parts manufactured in Thailand due to recent change in import tax structure. Worked in a team that devised cost reduction by changing the design of parts.

The University of Sydney, *Sydney, Australia*

1999 **Co-Captain of Men's Tennis Team:** *Wesley College*
Raised funds for practice expenses and uniform. Organized venues, team meetings, practice courts and end of season dinner. Discussed strategy with other team members. Resolved disputes and disagreements with opposition teams. Won the competition in 1999, Runner-Up in 1997–1998. Team member 1996–1999. Coached Wesley College women's tennis team.

1996–1997 **Music Organizer/Performer:** *Wesley College*
Organized music & musicians at weekly formal dinner. Planned 3–4 weeks in advance at a time. Performed in front of 200+ people, including students and academic council members. Musical director of a play *'The Importance of Being Earnest'* by Oscar Wilde, which was opened for public for the duration of 1 week in 1996.

ANOP Research Services Pty., Ltd., *Sydney, Australia*

Fall 1996 **Surveyor:** *Marketing Research Department*
Conducted in-spot surveys for Qantas Airways. Collected and sorted data to identify the traits of customers who flew different classes to Sydney International Airport.

AWARDS & HONORS:

- H.J. and C.K. Swain Prize in Mechanical Engineering for research in internal combustion engine (2000).
- Placed on the Dean's List for Excellence in Academic Performance (1999–2000).
- Awarded Associate Diploma in Pianoforte (A.Mus.A.) from The Australian Music Examination Board (1995).
- Awarded *Honour Colours* from The King's School (Sydney Australia) for outstanding excellence in music (1995).

ADDITIONAL INFORMATION:

Languages: Thai (native), English (fluent) & Korean (conversational).

Interest: Long distance swimming, tennis competition & history, playing classical piano, reading biographies.

Programming: C, Matlab, Fortran, html, LaTeX, Microsoft Word, Excel, PowerPoint, Windows, Mac O.S. & UNIX.