

DANNY G. FRENCH

email: dgfrench@ieee.org
voice: (604) 732-4342
webpage: www.ece.ubc.ca/~dannyf

3533 West 5th Ave
Vancouver, BC
V6R 1S1

EDUCATION

- September 2005 to current** **Medical Student at University of British Columbia, Vancouver, BC**
- September 2002 to December 2004** **Masters of Applied Science at University of British Columbia, Vancouver, BC**
- **Thesis Topic:** "Real-Time Dosimetry for Prostate Brachytherapy Using TRUS and Fluoroscopy"
 - **NSERC PGS-A Scholar**
 - **Precarn Scholar**
- September 1997 to December 2001** **Bachelor of Electrical Engineering (with Computer Option) at Dalhousie University, Halifax, NS**
- **Sexton Distinction** (on Dean's List) all five years
 - **CIAU Academic All-Canadian** all five years (competed on Dalhousie's swim team while maintaining a GPA over 3.45)
 - **Recipient of The Walter P. Copp Memorial Prize** ("the Engineering student who has achieved the highest average in the first two years of the BEng Degree program at Dalhousie")

WORK EXPERIENCE

- June 2006 to current & September 2002 to July 2005** **Research Assistant, Robotics and Control Group, UBC, Vancouver, BC**
- Developed a real-time dosimetry system for prostate brachytherapy.
 - Helped develop and write grant application.
 - Collected clinical data.
 - Implemented a 2D soft tissue model of the thoracic cavity on a haptic interface using a transverse CT image.
- January 2003 to April 2003 & September 2003 to April 2004** **Teaching Assistant, UBC, Vancouver, BC**
- Introduced lab experiment in a 15-minute lecture.
 - Provided technical assistance to students during a 3-hour laboratory session.
 - Graded quizzes, lab notebooks and projects.
 - Responded to students' questions outside of the laboratory sessions using email or a brief tutorial.

WORK EXPERIENCE

**January 2000 to
June 2002**

Student Tutor, Halifax, NS

- Tutored over 45 students from grade seven to second-year university in math, science, chemistry and physics.
- Discussed teaching methods with students, teachers and parents.
- Created, assigned and corrected problem sets for students needing extra practice.

**January 2002 to
July 2002**

Teaching Assistant/Marker, Dalhousie University, Halifax, NS

- Helped students in the laboratory to build and design mobile robots for a 3rd year *Robot Design* course.
- Marked computer code for a 4th year *Networks and Communications* course.

**May 2002 to
August 2002**

Manager, Starving Students Rickshaw Service, Halifax, NS

- Managed 20 runners in day-to-day operations.
- Hired runners based on an evaluation of their physical fitness and an interview.
- Negotiated advertising deals with local companies.

**May 2001 to
August 2001**

Debug Engineer, Cisco Systems, San Jose, California

- Debugged prototype circuit boards using diagnostic software, an oscilloscope and a multimeter.
- Wrote and implemented diagnostic software test plans.
- Conducted frequency spectrum analysis to quantify the quality of suppliers' cable.

**September 2000 to
December 2000**

Provisioning Engineer, Nortel Networks, Halifax, NS

- Logged onto customers' live switches to create and fill database tables as part of the provisioning process for new hardware.
- Created detailed design documents to provision new equipment as part of a project to build a broadband network.
- Analyzed the hardware and software currently at a switch to ensure it would not conflict with new software.

**January 2000 to
April 2000**

Software Developer, Amirix Systems, Halifax, NS

- Used Visual C++ to develop computer code for a lottery machine's network layer.
- Developed software prototypes to test small modules of the overall design.
- Learned project management techniques (such as, proper documentation, testing procedures, etc...).

AWARDS AND ACCOMPLISHMENTS

2003 to 2005	Precarn Scholarship (\$3900/year)
2003 to 2004	NSERC PGS-A Scholarship (\$17,300/year)
2003	UBC Graduate Entrance Scholarship (\$3500)
2002	Nominee for Governors' Award at Dalhousie University
2001 & 2002	StoraEnso Engineering Scholarship (\$1000)
1997, 98, 99 & 2001	Dalhousie Alumni Black and Gold Bursary <ul style="list-style-type: none"> • For demonstrating leadership in a sport (swimming)
2000	The Peter Guildford Trophy <ul style="list-style-type: none"> • "Presented to the student contributing the most to the Dalhousie University swimming team."
1999	Founders' Undergraduate Scholarship in Engineering (\$1500)
1999	Faculty of Engineering Scholarship (\$1000)
1999	Offshore Engineering Entrance Scholarship (\$1500)
1998 & 1999	Dalhousie Intra-course Scholarships (\$1000 in '98 & \$1500 in '99)
1998	Dalhousie TD Renton Memorial Award (swimming) <ul style="list-style-type: none"> • "Presented to the team member who best epitomizes the spirit of sportsmanship, determination and team commitment"
1997	Dalhousie Entrance Scholarship (\$3000)
1997	High School Valedictorian
1997	Member of Nova Scotia Canada Games Swim Team

PUBLICATIONS

- S.E. Salcudean, **D. French**, S. Bachmann, R. Zahiri-Azar, X. Wen, and J. Morris, "Viscoelasticity Modeling of the Prostate Region Using Vibro-Elastography", Proceedings of the Ninth Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2006), (*accepted*).
- **D.G. French**, J. Morris, M. Keyes and S.E. Salcudean, "Intraoperative Dosimetry for Prostate Brachytherapy from Fused Ultrasound and Fluoroscopy Images", *Academic Radiology* 2005; 12:1262-1272.
- **D.G. French**, J. Morris, M. Keyes and S.E. Salcudean, "Real-Time Dosimetry for Prostate Brachytherapy Using TRUS and Fluoroscopy", Proceedings of the Seventh Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2004), Saint Malo, France, September 2004.

PRESENTATIONS

- **D.G. French**, J. Morris, M. Keyes and S.E. Salcudean, "Real-Time Dosimetry for Prostate Brachytherapy Using TRUS and Fluoroscopy", Poster Presentation, Institute for Robotics & Intelligent Systems (IRIS) Conference, Ottawa, Canada, June 2004.
- **D.G. French**, S.E. Salcudean, and S.P. DiMaio, "Modeling Needle Insertion in the Thoracic Cavity Using Finite Elements and a Single Transverse CT Slice", Poster Presentation, Institute for Robotics & Intelligent Systems (IRIS) Conference, Halifax, Canada, June 2003.

AFFILIATIONS

since 2000	Student Member, Institute of Electrical and Electronic Engineers (IEEE)
since 2002	Student Member, IEEE Engineering in Medicine and Biology Society
since 2005	Student Member, British Columbia Medical Association (BCMA)

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

- Volunteer at Triage Emergency Shelter in Vancouver's Downtown Eastside (3 hours/week, Oct. 2003-Oct 2005)
- Social Coordinator of the Electrical and Computer Engineering Graduate Student Association at UBC (Jan. 2003-Dec. 2004)
- Volunteer at Vancouver General Hospital (3 hours/week, Sept. 2003-Mar. 2005)
- Non-Competitive Swimmer in BC Masters Program (2003 - current)
- Assistant coach for Fastlane Masters Swim Team (summers of 2003 – 2006 & winter 2006)
- Team Co-Captain of Dalhousie Tigers Varsity Men's Swim Team (1999 to 2002)
- Competitive swimmer on the Dalhousie Tigers Varsity Swim Team (1997 to 2002)
- Competitive swimmer on the Port Hawkesbury Thunderbolts Swim Team (1988 to 1997)
- Member of UBC Sailing Club (2003 & 2005 – current)
- Speaker at the academic orientation for new varsity athletes at Dalhousie University (2000 & 2001)

HOBBIES AND INTERESTS

Snowshoeing, Swimming, Hiking, Sailing, Yoga, Beer and Wine Brewing, Woodworking, Interests in World Affairs