ANTHONY M. FLOYD

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EDUCATION

May 1998 – Present

Doctor of Philosophy (Civil Engineering)
Composites Group
Departments of Civil Engineering and Metals and Materials Engineering
The University of British Columbia
Vancouver, British Columbia, Canada

Thesis title: "An Engineering Approach to the Simulation of Gross Damage Development in Fibre Reinforced Plastic Laminates"

- Expected completion date: Fall 2003
- University Graduate Fellowship 2001-2003
  (reduced to 1 year duration due to eligibility restrictions)
- NSERC Post Graduate Scholarship B 1999-2001

June 1997 – May 1998

Master of Applied Science (Civil Engineering)
Composites Group
Departments of Civil Engineering and Metals and Materials Engineering
The University of British Columbia
Vancouver, British Columbia, Canada

- After 1 year, promoted to PhD program (MASc incomplete)
- NSERC Post Graduate Scholarship A 1997-1999

September 1994 – May 1997

Bachelor of Engineering (Civil Engineering, Co-op)
Department of Civil Engineering
The Technical University of Nova Scotia (now part of Dalhousie University)
Halifax, Nova Scotia, Canada

- Graduated with Distinction, top student in a class of 45
- TUNS Entrance scholarship
- David F. Fanning Scholarship
- Mobil Oil Scholarship
- Sexton Scholar (honour roll) every semester

September 1991 – May 1994

Bachelor of Science (Physics)
Diploma in Engineering
Dalhousie University
Halifax, Nova Scotia, Canada

- Overall GPA of 4.0 on 4.3
- Dalhousie entrance scholarship
- Dalhousie in-course scholarship
- Burgess McKittrick prize in Physics
- Dean's List every semester

SKILL-SET OVERVIEW

- **Research skills** have been acquired and refined through 6 years working as a graduate student and research assistant in a university research environment and three work terms' experience in small-scale laboratory environments.
- **Report writing** and **presentation skills** developed from research positions, conferences, contract work, and schoolwork.
- **Leadership and management skills** developed in various volunteer positions.
- **Computer skills** include:
  - A **high level of familiarity** with the finite element program **LS-DYNA**. Have **developed several user material models** for use in LS-DYNA.
  - **Wide exposure** to and use of **other finite-element related packages** such as ANSYS, ABAQUS and AUTODYN, pre- and post-processors such as HyperMesh, Patran, and GLView.
  - **Extensive experience** with the use of spreadsheet applications for scientific data reduction and analysis, including the **development of code** (VBA).
  - **Significant** practical experience with the **use and administration** (hardware and software) of mid-sized (~25 machine) computer networks, including Windows, IRIX, GNU/Linux, and Tru64 Unix based computers.
  - **Good programming skills** in a number of computer languages including Fortran 77/90, C, and Visual Basic/VBA, as well as scripting languages such as Perl, VBS, ECMAScript.
  - **Certified** AutoCAD Level 2.

EMPLOYMENT HISTORY

September 1997 – Present
Research Assistant
Composites Group,
The University of British Columbia
- Worked on a number of contracts related to composite materials, in industries including defence, aerospace, and recreation.
- Research included numerical simulation of various composite materials in a variety of applications.
- Numerous reports and presentations were made.

January 2003 – April 2003
Sessional Instructor
Department of Metals and Materials Engineering,
The University of British Columbia
- Taught MMAT 494: Composite Materials I, a fourth year undergraduate introduction to composite materials. Enrolment was 20 undergraduate students, 10 graduate students.
- Responsibilities included preparing and presenting class notes, assignments, quizzes, laboratories, and the final exam.

September 1997 – May 2001
Teacher's Assistant
Department of Civil Engineering
The University of British Columbia
- Various appointments assisting professors with graduate and undergraduate courses.

EMPLOYMENT HISTORY (CONTINUED)

September 1996 – December 1996
Technician
Advanced Materials Engineering Centre
Halifax, Nova Scotia
- Performed mechanical testing on composites materials with Instron universal machine, performed thermal analyses including TGA, TMA, performed image analyses using a SEM.

January 1996 – April 1996
Mine Backfill and Artificial Support Systems Technician
Natural Resources Canada - CANMET
Sudbury, Ontario
- Performed particle size analyses, cement content test, uniaxial compression tests, sampling, backfill casting, and related tasks.

May 1995 - September 1995
Structural Engineer's Assistant
MacMillan Bloedel Building Materials
Dartmouth, Nova Scotia
- Designed floor and roof framing layouts for residential and light commercial construction using Engineered Lumber Products.

May 1994 - September 1994
Research Assistant
Department of Physics, Dalhousie University
Halifax, Nova Scotia
- Designed, built, and tested a prototype magnetic field scanner.
- Wrote and presented detailed reports on the scanning device.

VOLUNTEER EXPERIENCE

September 1999 - June 2000
- Volunteered in the UBC "Let's Talk Science" outreach program, which provided school teachers with access to graduate students for use as additional resources.

July 1998 - May 2000
- Volunteered as manager of the Structural/Materials Group for the UBC Human Powered Helicopter (HPH) Competition entry.

November 1994 - August 1996
- Volunteered as a member of TUNS Enviro Committee, which was involved in revamping paper recycling at TUNS.

May 1994 - September 1994
- Coached a minor baseball team at the Midget level (16-18yrs). The team won their division championships. (Also coached in 1993).

June 1994 - September 1994, June 1992 - September 1992
- Volunteered as a member of the Shinerama Blitz Committee, which organized the Cystic Fibrosis fundraising at Dalhousie University. Shinerama 1992 and 1994 each raised over $22 000. Volunteered to be a Freshman Orientation Leader.

June 1993 - September 1993
- Director of Physical Operations for Dalhousie Shinerama 1993, which entailed coordinating 700 student volunteers. This task included the planning and placement of the volunteers as well as coordinating Blitz Committee events over the summer. Shinerama 1993 raised over $24 000 for Cystic Fibrosis, the most raised to that point.

- References Available on Request -