

Weldon MacDonald

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OBJECTIVES:

- to be a “good” science teacher in the memory of my students and the eyes of my colleagues.

HIGHLIGHTS:

BSc in Math and Physics with a minor in Computer Science, cum lauda.

5 years as professional tutor in multiple contexts and subjects.

100's of hours observing classroom situations

3 years undergraduate research in a Physics Lab.

3 years teaching High School Students to use Mathematica.

Contract administrator to the RADARSAT Program.

30 years of experience, administration, technical, and teaching..

PROFESSIONAL EXPERIENCE:*Teaching*

- Summer intern for the Young Engineers School, YES, program at Albert Leonard Middle School
- Substitute Teacher in New Rochelle
- College Assistant, preparing Video tutorials for release on the Web.
- Assisted with classes teaching undergrads and high school students to use Mathematica to explore numerical problems.
- Worked with a team of high school students to produce a magazine of their mathematical research.
- Mentored high school students in the production of a paper presented at the Metropolitan Mathematical Association meeting
- Tutored children, full time, in a high-need school in math and Regents preparation.

Programming

- Working knowledge of C++, Java, PHP.
- Worked on an after school programming class for middle school students.
- Part time Web developer using html, xml, ActionScript, and mxml.
- Created a database program for the Canadian Space Agency.

Research

- 3 years as an undergraduate in a magneto-optics lab.
- Worked on 2 papers published in Physics Review B Journal.
- Received a scholarship from the Howard Hughes Medical Foundation.
- Ran experiments at the National High Magnetic Field Laboratory, FSU.
- Won a poster session at the fall 2005 MRS meeting.

Management

- Research, source, and consult on the purchasing and installation of computer equipment and software for The Canadian Space Agency.
- Project Manager for CanSoc, a multi-mission Satellite Operations Center

EMPLOYMENT HISTORY:

2008 – present.....	Tutor.....	Tutors on Wheels
2008 – present.....	Substitute teacher.....	New Rochelle District
2007 – 2008.....	College Assistant.....	Queens College
2002 – 2008.....	Lab Assistant/ tutor.....	Queens College
1995 - 02.....	Project Manager.....	Can. Space Agency

ACTIVITIES:

1989 - 95.....	Scout Master.....	Scouts Canada.
1997 - 2001.....	Online TD.....	Intl. Email Chess Club
2001 - 2004.....	Founding Member.....	Online Chess League
2004 - 2005.....	Secretary.....	Queens Physics Society

ASSOCIATIONS:

American Institute of Physics, Sigma Xi, research society, MRS

EDUCATION:

BSc Mathematics and Physics, minor Computer Science Queens College
Cum lauda

AWARDS:

Prize winnerMRS Poster Session
Scholarship.....Howard Hughes Medical Foundation

ADDITIONAL SKILLS:

AutoCAD draftsman	AUTODESK Certification, AST(1995)
Web Development	Flash/Flex, interactive web sites
Software	Word, Excel, PowerPoint, Origin, PhotoShop, Illustrator, OpenOffice, Mathematica, Blender 3D.

INTERESTS:

Electronics, Robotics, Chess, Technology,