CV EXAMPLE - ENGINEERING

Jamie Argonaught
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EDUCATION

- Dalhousie University  Halifax, NS July 2009
  Ph.D., Mechanical Engineering
  Dissertation: “A Battery-less Mechanical Device for On-Demand and Controlled Drug Delivery”
  Sub-specialization: Engineering Management
- M.A.Sc., Mechanical Engineering  December 2003
  Concentration: Control and Manufacturing
  Dissertation: “Fault Detection and Diagnosis in an Attitude Determination System”
- National Autonomous University of Mexico  Mexico City, Mexico August 1999
  B. Sc., Mechanical Engineering
  Concentration: Solid Mechanics
  Dissertation: “Determination and Analysis of Defining and Communicating Tolerances”

HONORS AND AWARDS

- The Natural Sciences and Engineering Research Council of Canada (NSERC)  March 2009
  Industrial R&D Fellowship
- Designated “Department Scholar”, Department of Mechanical Engineering, UBC  January 2008
- Faculty of Applied Science Graduate Award, UBC  September 2007 – May 2009
- The Natural Sciences and Engineering Research Council of Canada (NSERC)  June 2006 – June 2009
  Postgraduate Scholarship
- Four Year Fellowships (FYF) Award, UBC  September 2006
- The University of British Columbia Graduate Fellowship (UGF)  September 2005 – June 2006
- Ph.D. Tuition Fee Scholarship, UBC  January 2004 – December 2007
- International Partial Tuition Fee Scholarship, UBC  September 2001 – December 2003
- Ranked 3rd among 1999 class graduates in the field of Solid Mechanics in the Mechanical Engineering Department at National Autonomous University of Mexico  September 1999

PUBLICATIONS

Journal Papers


**Book Chapter**


**Conferences**


**Technical Reports**


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PATENTS


SELECT PRESENTATIONS

- Symposium on MEMS/NEMS and Robotics, Ritsumeikan University, Kyoto, Japan
  - February 2007
- Mechatronics and Manufacturing Seminar Series, UBC, on Controlled Drug Delivery
  - November 2007
- Mechatronics and Manufacturing Seminar Series, UBC, on Magnetic Polymer Membrane for Drug Delivery
  - January 2007
- UBC MEMS Group Presentation on Recent Advancements in Drug Delivery Using MEMS Technology
  - October 2006

TEACHING EXPERIENCE

- The University of British Columbia, Department of Mechanical Engineering Vancouver, BC
  - September 2002 – Present
    Lab Instructor and Project Supervisor
    Supervised the final projects of 4th year students and interns in the MEMS lab.
  - Teacher Assistant
    September 2001 – Present
    Held lectures, tutorial sessions, lab experiments and office hours for the following advanced courses:
    - Mechanics of Materials (3 times)
    - Process Engineering (3 times)
    - Automatic Control course and laboratory (3 times)
    - Mechanical Engineering Labs (3 times)

PROFESSIONAL EXPERIENCE

- Smith Lab, University of British Columbia
  - Vancouver, BC
  - September 2004 – Present
  - Researcher
  - Investigated the effect of ultrasound on uptake and retention of polar and non-polar molecular agents in cancer and proliferative blood vessel cells as well as drug sensitive and multidrug resistant expressing cell lines. The effect of using drug in free form versus drug in micellar form was investigated.

- GTM Global Inc.
  - Vancouver, BC
  - September 2003 – September 2005
  - Research Engineer
  - Developed a wireless single chip MEMS pressure and temperature sensors for use in pressure monitoring. Derived the optimal design parameters, resistor dimensions, doping sheet resistance, and sensor layout while taking the fabrication processes into consideration

- Tecnologia en Compresion SA
  - Mexico City, Mexico
  - June 1999 – June 2001
  - Design Engineer and Software Developer
  - Designed and implemented mechanical gauges.

- Volkswagen AG
  - Puebla, Mexico
  - June 1997 – November 1998
  - Intern
  - Designed a fixture for vehicle assembly and prepared required engineering drawings.
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TECHNICAL SKILLS

- Microfabrication and Cleanroom Experience (Wetbench Work, Polymer Processing, PECVD, SEM, etc.)
- Measurement and Characterization Techniques
- Radioactive Counting, Spectrophotometry, HPLC, Thermo Mechanical Analyzer (TMA), Wyko Surface Profiler, Laser Ablation (Quicklaze), Laser Doppler Vibrometer
- Cell Culturing (PC3 and HUVEC Cells) and Viability Assays
- Use of Tracer Molecules such as Radiolabeled Drugs and Dyes
- Softwares (COMSOL Multiphysics, Matlab, ImageJ, Ansys)

PROFESSIONAL AFFILIATIONS

- Microsystems and Nanotechnology Group (MiNa), UBC  
  May 2004 – Present
- Association of Professional Engineers & Geoscientists of B.C. (APEGBC)  
  March 2003 – Present
- Division for Advancement of Women in Engineering and Geoscience (DAWEG)  
  March 2003 – Present
- Institute of Electrical and Electronics Engineers (IEEE)  
  January 2003 – Present
- Women in Engineering (IEEE)  
  January 2003 – Present
- American Society of Mechanical Engineers (ASME)  
  January 2003 – Present

EXTRACURRICULAR ACTIVITIES

- The University of British Columbia  
  Department of Mechanical Engineering Graduate Student Representative  
  April 2003 – January 2006  
  House/Finance Committee Member in Graduate Students Society (GSS)  
  December 2003 – January 2005  
  UBC Tri-Mentoring Program  
  September 2003 – May 2007  
  Advised junior students in engineering careers  
  International Symposium on Collaborative Research in Applied Science (ISOCRIAS)  
  October 2003  
  Member of the Executive Committee

- National Autonomous University of Mexico  
  Executive Committee Member of 6th Annual Conference of Mechanical Engineering  
  May 1999