

# Nick Houghton

4962 La Quinta place  
Victoria, British Columbia, Canada

To: Harman, Victoria

I wish to submit my candidacy for the co-op position seen as advertised on the University of Victoria co-op listing. I believe that I am an ideal candidate for this position. I am currently a third year student in the electrical engineering department and I intend on pursuing the computer music and digital signal processing specialization.

I am a musician who plays drums in a local funk rock band. We have recorded three albums independently through which I gained an extensive knowledge of recording techniques and familiarity with both the Pro Tools and Logic software suites. I have also taken a recording hardware and techniques course through the Uvic music department. In my spare time I have experimented with building guitar pedals from kits purchased through the General Guitar Gadgets website.

The curriculum in the Uvic Electrical Engineering department has given me a thorough understanding of relevant techniques such as Fourier and Laplace Transforms. Using these techniques I have become very familiar with the use of transfer functions in the design of analog circuits. I have also gained a working knowledge of continuous, discrete-time and digital signal processing. I have working knowledge of programming in C and the ARM hardware language.

I have already completed one co-op work term with MMM Group in Vancouver and another at Applied Engineering Solutions in Victoria.

During my time at MMM Group I aided in the design and revision of lighting and power distribution systems for major construction projects; I gained extensive experience with single line, three line and control schematics. I also designed and implemented a complex database and calculation system for application to the third party environmental agency LEED's mercury reduction credit using visual basic coded macros in Microsoft Excel. While working for AES my primary responsibility was the drafting and revision of electrical systems plans using the Auto CAD software.

I am a hardworking and dedicated team player with an aptitude for efficiency and accuracy. I wish to join the Harman team for the excitement and experience of applying my knowledge of circuit design and signal processing to a field that I find so personally relevant and fascinating.

I look forward to discussing further this opportunity in person and am available for an interview at your convenience.

Thank you for your time and consideration.  
Sincerely,

Nick Houghton  
250-893-1988  
nhoughto@uvic.ca