



## Job Description

<b>Name of Organization:</b>	Communications & Power Industries Canada, Inc.
<b>Location:</b>	Georgetown, Ontario
<b>Level(s):</b>	4 <sup>th</sup> year
<b>Position Title:</b>	Hardware Engineering Co-op
<b>Majors:</b>	Electrical Engineering
<b>Students Required:</b>	1
<b>Duration:</b>	8 month – Commencing May 2017

**CPI is a world leading high-tech Electronics Company that designs, manufactures, and markets worldwide a diverse range of products for diagnostic medical imaging and satellite communications for television, Internet, and data transmission.**

We have a requirement for a co-op student to work on CPI's comprehensive line of medical x-ray generators and digital imaging systems.

### Position Description:

This position will work in the R & D group to develop high voltage, high power electronic circuits for use in medical x-ray applications:

- Work with high voltage circuitry, various power conversion topologies [ZVS, PWM, BUCK-BOOST] from 5 Watts to 100 kWatt switching supplies.
- Collaborate on the development, testing and troubleshooting of analogue and digital control circuits [inner and outer loop control] for use in medical applications, and test fixtures.
- Complete reports including simple test plans, bills of material and regulatory documentation.
- Assist with the design of high frequency [100kHz] transformers and inductors.
- Contribute to the development of circuit simulations and control algorithms.

### Position Requirements:

- 4th year student keen interested in electromagnetics
- Organized and self-motivated
- Good written and oral communicator
- Previous work with high voltage or switch mode power supplies would be an asset

If you would like to explore the world of Power Electronics, then a work term at CPI Canada is a great place to start by providing a fantastic opportunity for hands-on learning!

CPI values the contributions of a diverse workforce and is proud to be an Equal Employment Opportunity Employer. For information about CPI, visit <http://www.cpii.com>

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