# <Title of the research proposal>

## <Student Name>

**Supervised/Co-supervised by:**

### <Supervisor(s) Name(s)>

**Department of Mechanical and Materials Engineering**

**Western University**

**Section 1: General Introduction**

General introduction to the research topic that includes (i) description of broader research field, (ii) layman description of the research topic and its significance in the bigger picture. Should include at least one diagrammatic figure to illustrate the research problem being studied.

**Section 2: Critical literature review**

A synthesis and critical evaluation of the current state of knowledge in the research field (not just an author-by-author account). Include figures as necessary.

**Section 3: Motivation for the proposed work**

(i) Identification of the current knowledge gaps and (ii) explanation of which knowledge gaps the proposed research is expected to fill in and the expected contributions from the research.

**Section 4: Research Objective**

Clearly list all major objectives to be achieved through the proposed research or present them as hypotheses to be tested

**Section 5: Methodology**

Cleary describe and evaluate the methods to be used in the proposed research to meet research objectives. It should include,

1. Rationale for adapting particular methodology(ies), focussing on their relative advantages and limitations for the research to be undertaken
2. Brief description of the investigation technique(s) to be used,
3. Brief description of research milestones/phases and how they are tied to the research objectives

Include figures as necessary

**Section 6: Progress to date (if any)**

Briefly describe the research progress to date, if any. Include figures as necessary.

**Section 7: Timeline for research completion**

**References**