To: Dr. Erica Paterson, English 301 Instructor
From: Samuel Kobierski
Date: February 23, 2019
Subject: English 301 Formal Report Proposal – Proposal for the Construction of a Towing Tank at the University of British Columbia

**Introduction**

Recently, the marine industry has experienced a revival in British Columbia and within Canada. This has led to a lack of shipbuilding and ship design facilities on both the east and west coasts of Canada.

**Statement of Problem**

The Government of Canada recently started a long-term project, the National Shipbuilding Strategy, which aims to renew Canada’s federal fleet of combat and non-combat vessels. With this renewed focus on shipbuilding in Canada, there exists a lack of facilities that are essential to the shipbuilding process, such as the Towing Tank.

**Target Audience**

This Formal Report will be written to the Dean of Applied Science at the University of British Columbia, Dr. James Olsen, whom has the authority and mandate to develop relationships with external companies as well as to expand the Engineering programs and research opportunities.

**Proposed Solution**

I propose that UBC construct a Towing Tank that would allow the testing and design of vessels such as those being designed and constructed under the National Shipbuilding Strategy.

**Scope**

I will look at the construction and operation of a Towing Tank on the campus of UBC from the following angles:

1. The current availability of towing tanks in Canada and abroad
2. The requirements for a Towing Tank of industry and academia
3. The cost and operating expenses associated with a Towing Tank

**Methods**

I will base this paper on observations I have made as a Naval Architecture student and as someone who is employed within the shipbuilding industry. Another avenue will be the consultation with the Co-chairs of UBC’s Naval Architecture and Marine Engineering Masters program. I will also investigate the availability of Towing Tanks within Canada and abroad.

**My Qualification**

I am a near-graduate Mechanical Engineer who will soon enter the workplace where I hope to become employed as a Naval Architect. I have taken many Naval Architecture courses throughout my Undergraduate Degree, with much theory devoted to the analysis of ship hydrodynamics, essentially the study of how ships move through the water, which the Towing Tanks.

**Conclusion**

The revival of shipbuilding within Canada through the National Shipbuilding Strategy will not be successful without the availability of Towing Tanks to validate the calculated hydrodynamics of the ships. The construction of a Towing Tank the University of British Columbia will provide this well needed infrastructure.