Honours Thesis (COMP4906) Pre-Proposal & Permission Form

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Honours Thesis Pre-Proposal

Implementing Process Homeostasis Using Extended Berkeley Packet Filtering

William Findlay
April 29, 2019

1 Overview of Thesis

This section presents an overview of the thesis including motivation, objectives, equipment requirements, and expected deliverables.

- 1.1 Motivation
- 1.2 Main Objectives
- 1.3 Equipment Requirements
- 1.4 Expected Deliverables

2 Bi-Weekly Schedule for First Term (Fall 2019)

Table 2.1 presents a bi-weekly schedule for the fall 2019 term. This term will be used primarily for background research on Process Homeostasis and Extended Berkeley Packet Filtering in the Linux Kernel.

Table 2.1: A bi-weekly schedule for the fall 2019 term.

Bi-weekly Period	Task
Sep 04 - Sep 17, 2019	Background research on eBPF
Sep 18 - Oct 01, 2019	Background research on pH
Oct 02 - Oct 15, 2019	Explore other intrusion detection methods
Oct 16 - Oct 29, 2019	Explore other eBPF implementations of intrusion detection
Oct 30 - Nov 12, 2019	Determine best approach to solve the problem
Nov 13 - Nov 26, 2019	Draft thesis proposal report
Nov 27 - Dec 06, 2019 ^a	Finalize thesis proposal report

^a This period is slightly shorter to reflect the end of the term.