**Capstone – Ericsson Flexible Ping Utility - Closure Specification**

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# Summary of delivered product

## Goals/Vision

A ping utility is a basic tool for troubleshooting computer networks. These utilities are useful for network technicians in our sponsor's company to diagnose problems and test performance. Although similar utilities exist, our solution will be more flexible and streamline the process and minimize the amount of scripting effort by the technicians to perform simple tests and export data. We intend to have a working, extensible command-line prototype available by March, and a final version with several additions by the end of the semester. The project will be released as an open source program and provided to our sponsor for use and/or modification.

## Delivered Solution

Our goal for this project was to build a flexible ping utility with cross platform compatibility and added features/flags per Ericsson's request. Also, we've rewritten ping from scratch, the goal being to provide better readability and understanding, by using descriptive variable/function names and lot's of good comments.

## Remaining work

We've written pre-processors to provide cross platform compatability between Mac, Linux, and Windows. Unfortunately, after many headaches and hours of coding, we still weren't able to get the Windows version working. Windows functionality is important and we believe the next step in improving our application.

# Deliverables

These sections should be left in the document and noted as not applicable if there is nothing to put in that section. (Mostly this will just be pointers to where information is to be found. If there is none, explain why – e.g. your project was a cost study and did not produce any code.)

## Study results

Not applicable

## Requirements and Design Documents

These documents can be found in our Git repository at: https://github.com/poodus/Pong/tree/master/Documents

## Code

Our ping utility’s source code is located in our Git repository at: https://github.com/poodus/Pong

## Tests and test results

Not applicable, testing was done while coding and not required by our sponsor.

## Regression Test Capability

Not applicable

## Build Process

Documentation for running our application is located in the Wiki section of our Github at:

## https://github.com/poodus/Pong/wiki/Pong-User-Manual

## Install Process

Not applicable, our application runs on the command line and does not require any installation.

## Administrator and/or User’s Manual (or On-line help files)

Our application's User Manual can be found in the wiki section of our Github at: https://github.com/poodus/Pong/wiki/Pong-User-Manual

## Post Mortem Document

The post-mortem document is located in our Git repository at: https://github.com/poodus/Pong/tree/master/Documents/Final%20Documents

## Final Report

The final report is located in our Git repository at:

https://github.com/poodus/Pong/tree/master/Documents

# Sign-off

## Final Review

The final instructor review took place on Tuesday, April 30th at 1:30 pm in the Prairie Rose room inside the NDSU Memorial Union.

The final sponsor review will take place on Friday, May 3rd at 1400 GMT (8am Central) over Skype in the IACC Conference Room.

## Customer Sign-off

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| Approver – Sponsor | Title |
| Name: Oskar Myrberg | Signature: |