**APPENDIX A: Net Income Estimator Program Requirements Document**

**Abstract**

This document describes the functional requirements of the net income estimator program, named netIncome.

**Introduction**

The goal of the netIncome program is to estimate one’s net income based on the gross income amount, state tax rate, and information published by the IRS. This document will describe the factors that contribute to the net income output of the program.

**Inputs**

netIncome program accepts 2 inputs:

* Gross income: this is the gross income amount that will be reported to the IRS
* Tax percentage: this is the tax rate that will be applied to the gross income based on individual state’s policy

**Outputs**

netIncome outputs the following 4 values

* Net income: this is the expected net income after tax and social security.
* Social security due: this is the amount of social security that will be withheld from the gross income. The estimated social security amount will be based on IRS information.
* Federal tax: this is the amount of federal tax applied on the gross income. The estimated federal tax will be based on IRS information.
* State tax: This is the amount of state tax that will be applied on the gross income based on the tax rate of the specific state.

**Major Functions**

The program only consists of a main function which will prompt for information from user and produce an estimated net income together with the estimated taxes and social security amount

**APPENDIX B: netIncome Design Document**

**Abstract**

This document describes the design of the netIncome program.

**Introduction**

Given the requirements for the program, this document will describe the interpretation and decision made during the design process to meet the functional requirements.

**Inputs**

netIncome program accepts 2 inputs:

* Gincome: gross income amount, accepts any floating point numbers larger than or equal to 0 as valid values

Possible error: wrong data type or floating point value would result in wrong results.

* Taxperc: state tax rate, accepts any floating point numbers larger than or equal to 0 as valid values  
  Possible error: wrong data type or floating point value would result in wrong results.

There is no error checking function implemented for the program. The program will still run even with negative values or character-type values are entered for inputs. However, the result would not make sense. For instance, character-type values will be interpreted as floating point 0.

**Outputs**

netIncome outputs the following 4 values

* ssecurity: the amount of social security based on the IRS information given in the program description which will be 10.3% of the first $65,000 gross income.
* fedtax: the amount of federal tax based on the IRS information given in the program description which will be:
  + $3,500 for gross income less than $30,000
  + $3,500 + 28% of any amount of gross income above $30,000
* statax: the amount of state tax based on the state tax rate provided by the user. The amount will be: tax\_rate\*gross\_income
* netincome: the estimated net income will be
  + netIncome = gross\_income – ssecurity – fedtax - statax

**Major Functions**

The program will consist of a main() function which will be the netIncome program. The program utilizes 3 functions of C programming language

* printf(): This function will be used to interact with the user through console
* scanf(): This function will be used to convert the input string into the targeted data type as well as store the data into the targeted variable
* getchar(): This function will be used to read character from input stream