

## Assignment

### 1. Introduction

The purpose of this assignment is to obtain a better idea of how the candidate approaches software problems and the solutions he chooses to solve them, as well as how the candidate applies the best practices in terms of software coding standards, styling and user interface design.

### 2. Problem

Create a small application in Linux (preferable in Qt) that generates a sinusoidal wave form based on several user configurable parameters:

1. Oscillation frequency
2. Number of periods/cycles
3. Initial delay
4. Data window size
5. Sampling frequency

The candidate can be as much creative as desired when implementing this application.

### 3. Deliverables

Upload a ZIP file to the following location:

<https://innerspec.sharefile.com/r-rf41e1021a034784b>

The ZIP file must contain:

- a) Sources
- b) Any dependent library
- c) Compilation instructions
- d) Executable
- e) Instructions on how to use the application.
- f) Screen shots showing the applications.

The assignments must be completed in a week after receiving this document.

