# Programming for Engineers Portfolio: Quarter 1

These exercises are minimal exercises intended to keep people up to date, and also to provide some advance warning to the teaching staff if people are having difficulty keeping up with the practical skills. The word "portfolio" is not the best choice of word, as it implies something that you show off to demonstrate your skills. These exercises are much more intended to demonstrate basic competency - everyone should be able to solve them and do well.

Each week there will be a similar set of problems, and these build up into a directory that will be submitted at the end of the reading week (there will be no new portfolio exercises during reading week.)

The exercises all live within a directory structure, and your final submission will be a single file that collects together your solution.

The exercises for each quarter are in a directory called q1, and within that they are placed in sub-directories for each week. They are organised into "sets" for each week, in order to allow for numbering starting at 1; so each week goes into directories s1, s2, s3, and so on. Your work for each set will go into each directory, and you'll build up the complete set as you go.

The script prepare\_submission.sh is used to package up your directories in a standard format. You can run it by cd-ing to the direction and running it like a program:

### ./prepare\_submission.sh

it should produce a single file called:

#### ../ELEC40004-portfolio-es1219-DATE-TIME.tar.gz

Notice that the file will be created in the parent directory, and each time you run the script it will create a new file. The tar.gz is similar to a zip file, and contains all your submission files - you can actually use it as a simple form of backup if you like. Please submit the file that comes out of the script, as it ensures that directories are put in the right places.

The description of each portfolio set is contained in the sN directory (e.g. s1, s2, ...) directories, and will build up as the weeks go by.

Instructions are available as mark-down, which is a raw textual representation, or as pdfs that are generated from the mark-down. Markdown files have the .md file extension, and can be opened in any text editor.

You can do the portfolio whenever you like, and the only requirement is that you submit the complete set at the end of the reading week. No-one will be checking to see whether you have done it before then, and you can choose to do it whenever you like.

The blackboard submission system is set to open at 18:00 on Monday 4th, with the assessment name "Q1PortfolioExercises". A reminder: the delay is to encourage people to think about how to manage and backup files, particularly when working with laptops which might fail.

You can submit as many times as you like to blackboard, and the last submission will be taken as your final submission.

## Sanity check: Mon 11th Nov at 9:00

On Monday 11th at 9:00 a copy of all the current submissions will be grabbed, and some basic sanity checks will be run. These won't perform a full assessment, but are intended to do some basic "sanity checks" to make sure that the right type of file has been submitted, and that everything is in roughly the right place.

#### Final deadline: Fri 15th at 18:00

The final submission deadline is on Friday 15th (at the end of reading week / mid-term) at 18:00.