EE 4BI6 Fall 2010
LECTURE 3

Project Proposal Report Outline

Purpose of Report

- Describe proposed project in broad terms
- Force you to become focused and start seriously
- Identify early the challenges and resource needs
- Allow us to provide formal feedback

Sections – (i) Abstract

- What do you propose to design?
- Who is your customer base? (who are you designing it for?)
- What need does it fill?
- What will it do?
- What platform(s) do you intend to use?
- What major resources are required?

Sections - (ii) Background

- Describe background research (refs.) to define the problem

- Describe designs currently available including their features (websites, literature, refs)

- Describe anatomical/physiological background required for design

- Describe relevant technologies you may use in the design

Sections – Specifications

- List the initial features, their specifications, their values and justifications

- List them in order of importance or need

- Define the essential features

- Define the "nice to have" features

- If possible give lower limits for your specifications

Sections – (iii) Concept(s)

- What concepts have you considered and investigated?

- What are your selected concept(s) and why?

- What major resources will be required?

Sections – (iv) System Design and Planning

- What are the major components or subsystems of your overall design?

- How are they inter-related (block diagram or flowchart)?

- What are your design milestones (these are measurable and quantifiable, e.g. a block is completed and tested with acceptable test results)?

Sections – (v) Planning

- Gantt or other chart laying out time horizontally (1 or 2 week slots)
- Lines indicating major design components (e.g. background work – literature search, mastering hardware or software; preliminary concept generation, testing and selection of concepts; hardware blocks; software blocks; milestones are vertical lines relating to one or more flow lines)
- Responsibility for each component