University of Toronto, Faculty of Applied Science and Engineering
Department of Electrical and Computer Engineering

ECE 243S – Computer Organization – 2014

Project Proposal Form

After ensuring that your project idea is unique, you will use this form to describe your project (point form preferred), assess its difficulty, and outline what you expect to achieve each week of your project work. You **must give the filled form to your TA at the beginning of the first project lab session (the week of March 14).**

The TA will advise you if changes are needed to your project proposal so it is sufficiently, but not overly challenging. After you implement the changes, **the TA will then approve and sign your project proposal.** You will then make **two copies** of the final filled form: one will be kept by the TA, and the other one will be for your reference. Your ability to successfully implement all that was approved in your proposal will determine your project functionality marks.

Group Info

Station Number	First Name	Last Name	Student Number	Contribution [0..100] (filled during 3rd lab)

One Sentence Project Description (as posted on Piazza)

Technical Description of the Project

Describe your project in more technical details and include a system block diagram.

Technical Description of the Project Core

The project core is a minimum part of your project that you are committing to deliver. Failing to implement this part will result in loss of functionality marks.

Describe your project core here.

Assessment of Project's Difficulty

Please check off each accomplishment you propose in your project and indicate whether that accomplishment is part of the project core and whether it is interrupt-driven (if applicable). For accomplishments with multiple units such as the LEDs, switches, motors, etc., indicate the number of such units used. For example if you are using two Lego motors place the number 2 in the column instead of a checkmark.

Accomplishment	Proposed?	Project Core?	Interrupt?	Demonstrated? (to be filled by your TA)
LEDs/Switches			N/A	
Push buttons				
Digital protoboard				
VGA			N/A	
16x2 LCD			N/A	
Lego motors			N/A	
Lego sensors				
Linking C with assembly			N/A	
JTAG UART transmit				
JTAG UART receive				
Timer				
Hexkeypad (rows or columns only)				
Hexkeypad (rows and columns)				
RS-232 UART transmit				
RS-232 UART receive				
DMA transfer				
Nios II Custom Instruction			N/A	
Audio Codec output to speakers				
Audio Codec input from microphone				
PS/2 Keyboard				
PS/2 Mouse				
SD Card Reader				
Custom Bus Component				
Ethernet				

Please describe any other devices or complex software algorithms you will use. Remember to keep this relevant to ECE243 (not fancy electronic circuits or complex mechanical systems).

Project Milestones

Describe what parts of your project you will have fully implemented in each of the three project lab sessions. Keep in mind that you will have to demonstrate your project during the third project lab session. The key here is to design incrementally: get something working quickly and keep adding to it. TAs will not accept the "integrate everything in week 3" approach.

First project lab session (week of March 14)

Second project lab session (week of March 28)

Third project lab session (week of April 4) – Demo

TA Notes

This page is filled by your TA.

Approval

Approved by _____

Date _____

First project lab session (week of March 14)

Second project lab session (week of March 28)

Third project lab session (the week of April 4) – Demo