Homework 1: Welcome to ECE 111
Matthew Shuman, Change this to your name
Due October 10th @ 3 PM

1 Introduction

Welcome to ECE 111 my name is Matt Shuman and I lived in Madras, Oregon before coming to OSU to start my undergraduate ECE degree in Fall 2001, but now Corvallis is home. I am teaching three ECE courses (ECE 111, 271, and 507) and teaching a woodworking class at the OSU craft center. I’m a 3rd generation Beaver, and turning ideas into reality fascinates me. Insert your image as in figure 1 using the link below and replace my introduction with your introduction.

2 Defining Success

Success is the achievement of something desired, planned, or attempted. After you put years and thousands of dollars into your college education, what do you want from your ECE degree?
Write answer here

1http://mu.oregonstate.edu/craftcenter/
3 Word Processing

This homework assignment focuses on using Latex or another processor to create a professional looking .pdf for each assignment. What are the advantages of Latex compared to traditional WYSIWYG word processors? What are the disadvantages of using Latex? Write Answer Here

4 Microcontrollers

Atmel Microcontrollers are a very inexpensive way to develop projects. Every future project in ECE 111 will use an Atmel Microcontroller, the Atmel Mega32.

Lookup the cost of the Teensy 2.0 microcontroller board

Lookup the cost of a Atmel Mega 32 microcontroller on Digikey. It doesn’t have to be the one used on the Teensy 2.0.
http://www.digikey.com/?curr=USD

Write the cost here

Look up a project on Youtube that uses an Atmel Microcontroller
What does the Atmel Microcontroller do for the project you researched?
Write answer here

5 Microcontroller Packages

Integrated Circuits, ICs, are made using many different types of packages. The Mega32 in lab is a 44-VFQFN.

Insert a picture for the DIP, TO-92, QFP, VFQFN, and BGA package types

This link might be helpful


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2 http://en.wikipedia.org/wiki/WYSIWYG