Homework 1: Welcome to ECE 111

Matthew Shuman

Due October 4th @ 3 PM, 2012

1 Introduction

Welcome to ECE 111 my name is Matt Shuman and I lived in Madras, Oregon before coming to OSU for undergraduate studies in Fall 2001, and now Corvallis is home. I am teaching three ECE courses (ECE 111, 271, and 507), taking three MBA courses (BA560\(^1\), 562, and 528), and teaching a woodworking class at the OSU craft center\(^2\). It’s a busy term, but I’m excited for this term. Insert your image as in figure 1 using the link below and briefly introduce yourself.

![Image](http://mime.oregonstate.edu/research/drl/)

Write answer here

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

\(^1\)http://mime.oregonstate.edu/research/drl/

\(^2\)http://mu.oregonstate.edu/craftcenter/
3 Word Processing

The homework assignments in ECE 111 focus on using Latex to typecast 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 Tiny26.

Lookup the cost of the Tiny26 Microcontroller from Digikey
http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=ATTINY26L-8PU-ND
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 Tiny26 in lab is a DIP, while the 5 volt regulator is in a TO-92 package. The ECE 272 CPLD uses a 44 pin QFP. The Droid X OMAP processor is a BGA package type with over 400 pins!

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

This link might be helpful

Write answer here

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3http://en.wikipedia.org/wiki/WYSIWYG

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