

IOWA STATE UNIVERSITY

# Senior Design Weekly Report

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## Weekly Report 10

**Group: May-06**

**Group member: Chongli Cai, Qiaoya Cui, David Hoffman, Andrew Kom, Ailing Mei**

**Client: Garmin International**

**Advisor: Dr. Colin Christy**

**Period: 10/29/2012-11/4/2012**

**Date: 11/4/2012**

## Goals to Meet

This week, we were hoping that our LCD screen would be in, but they should be in this next week. As for what we wanted to accomplish was really just to continue our experimenting with the MCUs. We wanted to get the ADC and USART portions of each working.

## Weekly Progress

This week, we encountered a problem with using the Garmin build PIC evaluation board. It appears to have some communication issues with the RS232 connectors. Due to the fact that the board utilized a mini-USB connector, as an RS232 port, we made a cable for this. Initially it seemed to work; as a hyper-terminal code was working that would send a character and receive it back to the terminal window. Apparently, we are now having some issues with it, as a simple code that should continuously print a character out over and over would not seem to work.

## Future Planning

We are expecting our LCD screen to come in soon, and will start to integrate the USART communication of the MCU with the LCD screen. We also plan on trying to get more done on connecting the ADC code to the USART.

## Pending Issues

We have yet to understand the problem that we are having with the USART port on the PIC chip, but will spend time this week understanding the issue, and attempting to solve it.

## Individual Contributions

### **Andrew:**

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Tried to debug the USART PIC problem

### **Chongli:**

Continued to study the integration of the amplifier circuit with the MSP430

### **Ailing, Qiaoya:**

Continued to look into the integration of the USART and ADC on the MSP430

### **David:**

Tried to debug the USART PIC problem