

First Meeting Agenda

August 24, 2015

1. Welcome!
   1. Round Table (6:00 – 6:05)
2. Announcements (6:05 – 6:06)
   1. Is this course graded? From Lindqvist. (6:05 – 6:05)

I need to re email Lindqvist.

* 1. Please place all documents relevant to project in Drive! (6:05 – 6:06)

Invite Rob and Tandon to folder.

1. Proposal (6:06 – 6:50)
   1. Overview (6:06 – 6:12)
      1. Elaborate on Bluetooth technology and its importance

What is bluetooth? How does it work? Talk about how bluetooth technology is a rising communication standard and has a private frequency, personalized authentication, pairing abilities, master-slave configuration, interference issues (non penetrating?)

* 1. Clear Problem / Solution Statement (6:10 – 6:12)

To develop a background utility that will alert the user to a Bluetooth disconnection with a description of the issue along with a solution based on the specific event analysis.

* 1. Review Problem Statement (6:12 – 6:16)
     1. Discuss Variables

Devices (Mouse, Keyboard, Microphone), Distance between device and computer communicator, Bluetooth versions ( ex. 2.0,3.0 ), interference from objects (at similar frequencies).

* + 1. Discuss Controls

Desktop Utility, iOS utility if we can get it to work, Same Laptop, Very large room with little interference (EE Lab), Class 1 devices

* + 1. Discuss Magnitude of Problem

When a disconnection occurs, no prompts are given to user saying what specifically caused error only that there is one. There are a variety of issues that can cause a bluetooth issue.

* 1. Review Solution (6:16 – 6:25)
     1. What data will be represented?

Distance, Connection Strength, Data Stream (may be connected to connection strength), Device Information, Error Prompt

* + 1. How to represent data?

Dialog box if minimized splash screen, different icons for different errors, link to show real time signal information, provide solution to issue in dialog

* 1. Learning Objectives (6:25 – 6:30)
     1. Pertinent Electrical Engineering Topics

Applications of DSP, Communications, Computer Architecture

* + 1. GUI Development

Successful deployment of desktop(mobile) program with real world application, Further experience designing conventional / user-friendly interfaces.

* + 1. Engineering Testing Practices

Application of Scientific Method, Lab Testing, Quality Analysis

* + 1. Software Engineering Practices

Application of Parallel Software Development / AGILE, Working collaboratively in a team of engineers with a variety of skills.

* 1. Procedure and Agile Development (6:30 – 6:35)
     1. Languages, Devices, and Infrastructure

Java Swing, iOS Objective C, Macbook Pro, PC, IPhone, Eclipse, Github, Overleaf (can do all the LaTex coding)

* + 1. Organization (Schedule)

Tuesday Nights (8:00pm-10:00pm)

* + 1. Sprints and Checkpoints

Github (for versioning, pushes, branching)

* 1. Members, Responsibilities, and Roles (Pertinent to this project)

Describe weaknesses and roles honestly to see if another teammate is necessary (6:35 – 6:45)

* + 1. Irving
       1. Strengths

Electrical Engineering Theory (DSP, Communications), Technical Writing, C++

* + - 1. Weaknesses

Not too strong of a programmer, May be controlling (tell me if I am!)

* + - 1. Roles

Team Lead, Point of Contact, Researching relevant EE topics, Lead the writing of the paper as a project for Scientific and Technical Writing course, Write Agendas

* + 1. Rahul
       1. Strengths

Software Engineering Theory (AGILE, team software development), iOS development, C++, Java, Swing, Linear Systems/Signals, Hand that interferes with bluetooth frequency

* + - 1. Weaknesses

Gets distracted too easily

* + - 1. Roles

Desktop Software, Developing software for the desktop utility, Developing software for the mobile utility (if feasible), Developing QA techniques and test scripts for software, Lab Testing,

* + 1. Rob
       1. Strengths

Software Engineering Theory (AGILE, team software development), C++ (Very Strong), Java, Swing, Microarchitectures, Scientific Method, public speaker

* + - 1. Weaknesses

EE Aspects (DSP, Communications), Sticking to a schedule

* + - 1. Roles

Desktop Software Lead, Lead AGILE Scrum Meetings, Developing software for the desktop utility, Developing QA techniques and test scripts for software, Lab Testing, Presenting presentation

* + 1. Additional Members (EE)?

Ask advisor

* 1. Conclusive Statement (6:45 – 6:50)

1. Miscellaneous (6:50 – 7:00)

Rob will set up Github Repository, Irving will write up Proposal

Next meeting date SEPTEMBER 1st, 2015 @8:00pm