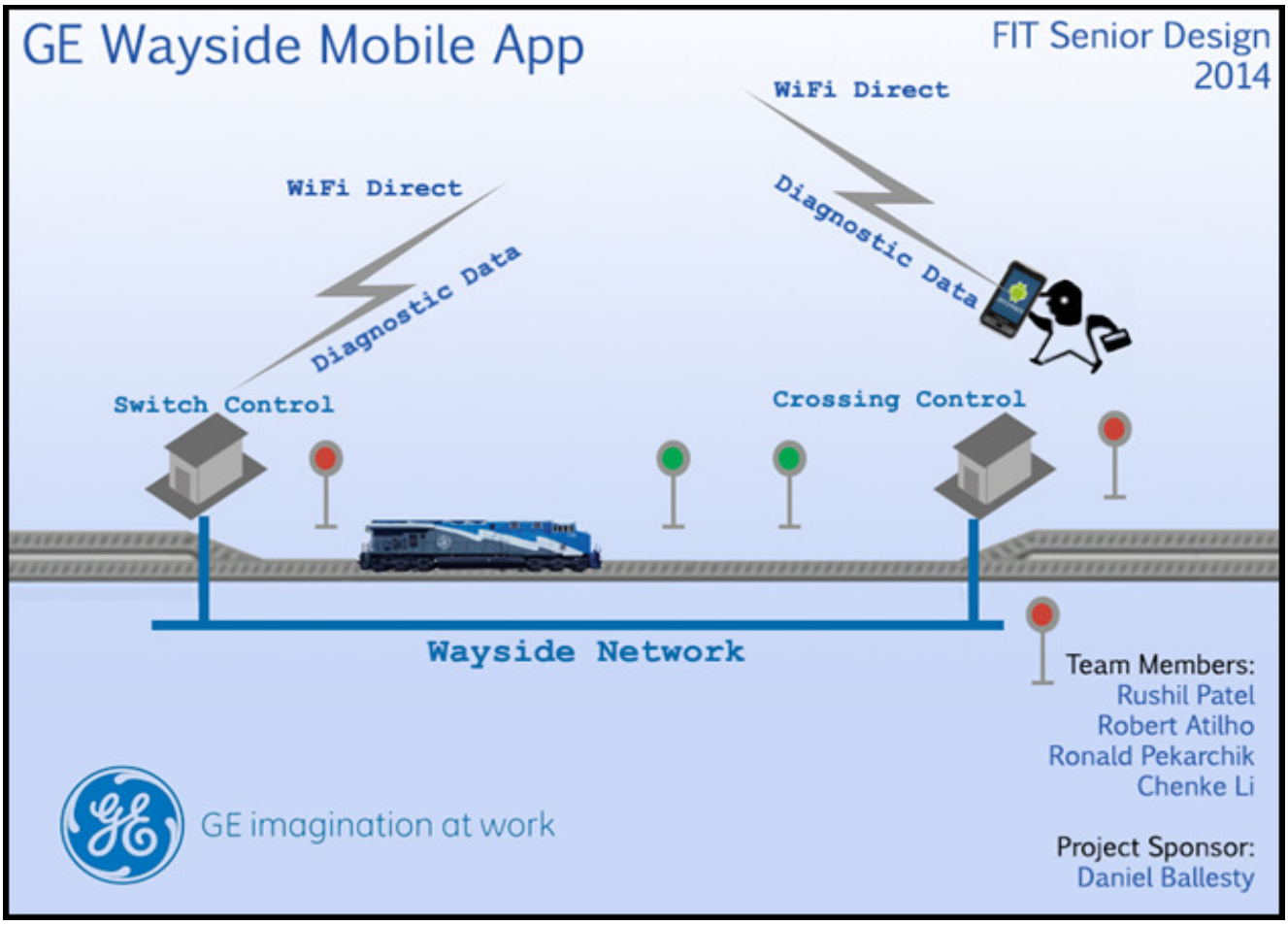

Milestone 1 - Progress Evaluation

Team Members:

Rushil Patel	rushil2011@my.fit.edu
Robert Atilho	ratilho2012@my.fit.edu
Ronald Pekarchik	rpekarch2006@my.fit.edu
Chenke Li	lic2012@my.fit.edu

Faculty Sponsor:

Daniel Ballesty (GE)	Daniel.Ballesty@ge.com

CS Faculty Sponsor:

Dr. Liam Mayron	lmayron@fit.edu

Milestone 1 - Progress Matrix:

Task	% Complete	Rushil Patel	Roberto Atilho	Ronald Pekarchik	Chenke Li
1. Investigate Tools/Packages	100%	70%	10%	10%	10%
2. Requirement Document	100%	10%	70%	10%	10%
3. Design Document	100%	10%	10%	70%	10%
4. Test Plan	80%	30%	10%	10%	30%
5. Setup Version Control	100%	100%	0%	0%	0%
6. Test android SDK	100%	0%	0%	100%	0%
7. Test SQL setup	100%	0%	100%	0%	0%
8. Familiarization with APIs	100%	20%	20%	20%	40%
9. Setup web, SQL server	100%	100%	0%	0%	0%
10. GUI Sketch	100%	0%	50%	50%	0%

Summary for each completed task for Milestone 1:

- **Task 1 - Investigate Tools/ Packages**
  - Researched various tools, packages, hardware to be used for the project
  - 'Hello world' examples to evaluate above.
  - Tools: MS SQL Server, Java, HTML, JavaScript, Android SDK
  - Hardware: Android phone, raspberry pi, wayside controller, server
  - Environment: Eclipse, Microsoft Expressions 4, SQL Management Studio
- **Task 2 - Requirement Document**
  - Identified end-user requirements
  - Identified safety requirements
  - Identified hardware/software requirements
- **Task 3 - Design Document**

- Identified overall system design
- Identified design changes that needs to be made to the existing system.

- **Task 4 - Test Plan**
  - Identified user interface tests
  - Identified scenario tests
  - Identified security tests
  - Researching appropriate unit tests and various others.
- **Task 5 -Setup version control**
  - Setup a GIT repository for the project
  - It will be self hosted to protect sensitive information
- **Task 6 - Test Android SDK**
  - "Hello world" application to test android SDK with eclipse
  - Test android emulator (version: 2.3, 4.0 and 4.1)
- **Task 7 - Test SQL setup**
  - Test connection to SQL.
  - "Hello world" sql query to test the setup
- **Task 8 - Familiarization with APIs**
  - Familiarization with android APIs
  - Familiarization with HTML
  - Familiarization with SQL
- **Task 9 - Setup web server**
  - Setup a web-server to present UI prototypes.
  - SQL server to test database queries.
- **Task 10 - GUI Sketch**
  - Sketch a basic user interface layout to demonstrate basic screen layout

Summary of Contribution of each team member for Milestone 1:

- **Rushil Patel**
  - Researched various tools/packages/technologies for the project
  - Drafted Test plan with the help of Chenke Li
  - Setup version control for source code management
  - Setup a web-server to present UI prototypes
  - Setup a test SQL server to test database queries
- **Roberto Atilho**
  - Researched system requirements
  - Researched software requirements
  - Tested SQL server connectivity by running sample queries

- Drafted requirements document
- Sketch a basic user interface layout with the help of Ronald Pekarchik

- **Ronald Pekarchik**
  - Researched existing system design
  - Analyzed new system requirements
  - Laid out new system design
  - Drafted system design document
  - Sketch a basic user interface layout with the help of Roberto Atilho
- **Chenke Li**
  - Research/Help Rushil Patel in drafting test plan.
  - Get familiar with Android APIs, SQL queries, HTML, etc.

Task Matrix for Milestone 2:

Task	Rushil Patel	Roberto Atilho	Ronald Pekarchik	Chenke Li
1 User interface design	10%	70%	10%	10%
2. Store codebook	10%	10%	70%	10%
3. Research wireless technologies	10%	10%	10%	70%
4. Source code analysis	70%	10%	10%	10%

Summary for each planned task for Milestone 2:

- **Task 1 - User interface design**
  - Prototype of user interface (Proof of concept), which will later be used for the application
- **Task 2 - Store codebook**
  - Design algorithm to store all the error codes locally on the device.
  - Java code that will allow to store/search/update stored error codes.
- **Task 3 - Research wireless integration**
  - Research how setup connection to the wayside controller over a wireless medium.
- **Task 4 - Source code analysis**
  - Analyze existing source code

- McCabe's complexity testing.
- Identify if the code can be reused.
- Verify its compatibility with the new system

Sponsor Feedback on each task for current Milestone:

- **Task 1 - Investigate Tools/ Packages**

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- **Task 2 - Requirement Document**

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- **Task 3 - Design Document**

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- **Task 4 - Test Plan**

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- **Task 5 - Setup version control**

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- **Task 6 - Test Android SDK**

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- **Task 7 - Test SQL setup**

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- **Task 8 - Familiarization with APIs**

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- **Task 9 - Setup a web, SQL server**

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- **Task 10 - GUI sketch**

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Sponsor Evaluation

- Sponsor: detach and return this page to Dr. Chan (HC 322)
- Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Rushil Patel	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Robert Atilho	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Ronald Pekarchik	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Chenke Li	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Sponsor Signature: _____ **Date**: _____