

Project Meeting

Date:2/3/2016

Key points discussed:-

- An embedded systems with real time functions has to be implemented. A mobile client can be developed for the same.
- Ideas are to be brainstormed in the next meeting which will be held on 2/4/2016 (Tentative).
- Think about ideas in this time. Each one must have at least 10 ideas.
- Basics of software product life cycle. **V Model** will be followed in development of the system
- Teams will be divided as per experience and work interest.
- All stages of V model from requirements to operation will be documented and professional engineering practices are to be followed.
- Main focus is learning and engineering an embedded system, **NOT CRAFTING** it.
- The project will last maximum 3 months.
- GIT will be used for version control. Excel will be used for requirements
- UML 2.0 will be used for analysis and design
- C, C++ and Assembly are used for implementation. Java for client app.
- Lint will be used for static code analysis.
- Open source Software for testing are to be researched => Mehul Saxena
- All the project members are advised to refresh basics of C and embedded systems.
- Hardware to be used can be one of the following: Beaglebone Black, Raspberry Pi, Arduino Uno, MSP430.

Some useful links are:-

Patrick Hood Daniel: <https://www.youtube.com/channel/UCC7ifdmN7ebFo-eXBUZkeiw>

Derek Molloy: https://www.youtube.com/channel/UCf_sAmhBw7Tj7-2ujmLFoQg

EEV Blog: <https://www.youtube.com/channel/UC2DjFE7Xf11URZqWBigcVOQ>

AdaFruit: <https://www.youtube.com/channel/UCpOIoeQjj7EsVnDh3zuCgsA>

Add Ohms: https://www.youtube.com/channel/UCi4UZoZM0lw9_tTeRjZd_bA

Please install these software and ask me if you need any help:-

- Eclipse CDT
- Eclipse JDT
- FreeCommander
- IPMsg
- Beyond Compare
- Code Blocks
- Cygwin
- MinGw Compiler Suite
- Smart Git
- **Optional:** Any good Linux distribution. Debian or Ubuntu will be good. Ask me if you need help with Linux installation.