

# WEEKLY REPORT

## TRANQUILLUM

### 19/11/2012

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#### **Abdullah Hasan Taher Bayrakdar**

- Attended a meeting with İhsan Mert Özçelik (ARÇELİK) on Friday. Concluded that using Java and/or Python APIs [1] for our devices is unnecessary. Decided to use simple serial communication.
- Started working on SDD Document. The headings of the main sections are written down and part of the introduction is completed. UML diagrams (class diagrams, sequence diagram ..etc) would be drawn after discussing the data models in our group's weekly meeting.
- Connected to Ceng490 subversion repository via SSH. XBee communication codes will be committed to the SVN whenever completed.

#### **Anıl Ulutürk**

- Attended a meeting with İhsan Mert Özçelik (ARÇELİK) on Friday. Concluded that using Java and/or Python APIs [1] for our devices is unnecessary. Decided to use simple serial communication through common libraries.
- Created a console application on Linux for coordinator to end (and vice versa) communication with Python, C and afterwards in Bash but failed to make it work properly (Transmit OK – Receive Fail).
- Created another application in Qt4 (Linux) for same purpose in C++, based on Cutecom [2]. Works well for API mode of Zigbee devices, supports automatic framing based on given data string.
- Demo application will be prepared tonight.

## **Şerafettin Öztürk**

- Get in touch with İhsan Mert Özçelik (ARÇELİK) and set up a meeting.
- Started writing System Architecture component of SDD.
- Attended a meeting with İhsan Mert Özçelik (ARÇELİK) on Friday. Concluded that using Java and/or Python APIs for our devices is unnecessary. Decided to use simple serial communication

## **Zeynep Mavuş**

- SRS corrections after taking the feedback from Arçelik
- Started to work on software design documentation(SDD)
- I could not attend the meeting with İhsan Mert Özçelik on Friday, but I learned the meeting outcomes as which are mentioned above from my team friend.

## **As a Group:**

- After this week, we nearly completed Linux (Beagleboard) side of Zigbee communication. Started committing files to SVN for the first time. We planned the SDD documentation and submitted the XBee communication source codes to SVN repository after it is completed. As next step of our project, we need to handle PIC-Zigbee communication through UART with the same system we used in regular PCs. Also, it may be a good idea to start designing client side of our web GUI in the short run, which will give us certain advantages over SDD,SRS documentation details and demo phase at the end of semester.

## **References:**

- [1] <http://code.google.com/p/python-xbee/>  
<http://code.google.com/p/xbee-api/>
- [2] <http://cutecom.sourceforge.net/>