Team Name : PipeWan

Date of Submission : 10/01/21

Meeting Date & Time : 10/01/21 11:00 am

Meeting Location : Teams

Meeting Duration : 1.5 hrs

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| --- | --- | --- |
| Team Members | X = Present | Notes |
| Mohammad Daoud | X |  |
| Edgar Chavez | X |  |
| Aron Wiley | X |  |
| Alex Rossillon | X |  |

# Progress

Team accomplishments for the week

*A short narrative, typically 1-2 paragraphs, should include decisions made by the team as a result of the team discussions, and how the team arrived at the decision.*

This week the team reviewed the midterm presentation requirements laid out by coach Allen. The midterm covers a lot of information, so we decided to assign research tasks to each member. Moe will be researching RF emissions standards, interference considerations, and antenna design. Edgar will research server and gateway function. Aron will cover OTAA/ ABP, ChirpStack, ThingsBoard, Grafana, NodeRed, and MQTT. Alex will research Data management and encryption and LoRaWan libraries.

We created a research document and have been populating it will information. We also started our PowerPoint for the midterm presentation.

Individual contributions

*A brief narrative (1-3 sentences) made by* ***each team member*** *summarizing their respective activity for the past week.* ***NOTE:*** *Missing the meeting without advanced notice, making no contributions to the meeting, or missing two team meetings could result in a zero for any team assignments.*

Mohammad

This week, I have done generic research on LoraWan specifications 1.0 and 1.1. I have also looked into the architecture of a LoraWan network for nodes to servers and gateways. I also came across a few security concerns related to Iot devices and how to mitigate them.

Edgar

This week, I researched information about the LoRaWan specifications. Then I met with the team to help prepare for our Midterm presentation the following week and prepared a research document.

Aron

This week I researched information about the LoRaWan system and about what Coach wanted us to look into. I also tried setting up a meeting with Coach, however I did not get a response. I also worked on looking into the differences between LoRaWan 1.0 and 1.1.

Alex

This week I installed a linux vm and started messing around with it. I also read through some of the information about LoRaWan and watched their video about it. I helped with the group research doc and midterm powerpoint.

# Project Tracking

*Tasks which are actively being worked on.*

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| --- | --- | --- | --- |
| Team Member | Assignment | Due Date | % Complete |
| Mohammad | Research LoraWan specifications 1.0 & 1.1, RF emission, standards, interference considerations, and antenna design/placement. | 10/08/2021 | 10% |
| Edgar | Research server and gateway functions. Continue research on LoraWan system. | 10/08/21 | 10% |
| Aron | Setup a meeting with Coach and research information on OTAA, ABP, ChirpStack, ThingsBoard, Grafana, NodeRed, and MQTT. Contiue research on the LoRaWan system. | 10/08/21 | 20% |
| Alex | Reasearch Data management, encryption and decryption requirements (if any). Libraries to use e.g. LMIC | 10/08/21 | 0% |

# Plan

*Future work. A brief description of the tasks and activities the team needs to accomplish over the coming weeks. As team members pick up assignments, move from this table to the tracking table. Consider future work a running task-list with an expected due date for completion.*

|  |  |
| --- | --- |
| Assignment | Due Date |
| Research the different requirements for midterm presentation | 10/08/21 |
| Have a meeting with Coach for project requirements | 10/07/21 |
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# Issues

*Include a brief description of issues the team has encountered, and potential resolutions for the issues. If the team would like staff to help with the issues, this is the appropriate place to request assistance.*

# Next Meeting

Date & Time : 10/05/21 07:00 pm

Location : Teams