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From:

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Summary

- Finalized the project.
- Researched the technologies that will be used for the project.
- Requested the required parts order.

What BTT completed this week

- Soonchan Kwon
  - Wrote the abstract section in the paper.
  - Wrote the hardware implementation section in the paper.
  - Wrote the network implementation section in the paper.
  - Revised the paper according to the review.
  - Wrote the contents related to LoRa parameters in the papers.
  - Plan the field experiment from outdoor.

- Gihwan Kim
  - Wrote experiment section in the paper
  - Implemented data pre-processing code for object detection
  - Implemented code for training pre-trained model.
  - Collected labeled data set for object detection
  - Wrote introduction section and related work section for the paper

- Nahyeong Kim
  - Wrote the explanation of mesh network in methodology section of paper.
  - Made a figure showing the structure of the mesh network.
  - Had a meeting for our field experiments with Dr.smith.
  - Wrote the related work section for the paper.

- Nawon Kim
  - Studied and implemented how to decide a frame buffer location.
  - Researched on frame format which is suitable for video streaming and implemented to get frame buffer values as an array.
  - Researched on methods of resizing and cropping captured image.
  - Researched on how to customize the resolution of OV2640.

Things to do by next week

- Build the last two node hardware after order is arrived.
- Design the field experiment in detail.
- Conduct the field experiment.
- Write the result of field experiment in paper.
- Write a conclusion section in paper.

Problems or challenges

- Convert TensorFlow Lite for microcontroller to C style code.
- Conduct the field experiment in time.