

Group Number and Name	Dec14-12
Client/Advisor	Bong Wie
Attendees/Role	Sean Nichols/Leader, Chi Hoe How/Communication, Yishu Mei/Webmaster/ Meng Lu/Advisor

Past Week Accomplishments

- Worked on presentation for a progress run through with George.
- **Sean** - Successfully created lowest level blocks for the K-means core. These include :
 - Square Root
 - Divider
 - Inferred Block RAM
 - Package files with record defines
- **Chi Hoe / Yishu** - Stepper motor is mobile, but very shaky with third party code.

Plan for Coming Week

- **Sean** - Begin to assemble higher level logic blocks that are key to operation of a K-means algorithm. These include :
 - Distance calculator
 - Min finder
 - Grouper
 - Accumulator
 - Averager
 - Various FSMs
- **Yishu / Chi Hoe** - Find a way to get the stepper motor to run more smoothly.
- **Chi Hoe** - Get AXI4-Stream passthrough module to work and insert into current video processing pipeline to show that it works.

Pending Issues

- We need a more stable acceleration of the stepper motor!
- The hardware design process is a very slow one. There is still much to do past what has already been created.

Individual Hourly Contributions

<u>Name</u>	<u>Hours this week</u>	<u>Hours Cumulative</u>
Sean Nichols	20	85
Chi Hoe How	11	55
Yishu Mei	8	56

Comments and Extended Discussions

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