

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

- **Sean** - found that it will not be a trivial task to interface with AXI4 slave device (a.k.a. create hardware module to act as AXI4 master) to get the data into ARM accessible memory. The alternative solution is to just implement the K-means clustering algorithm in hardware itself!
- K-means implementation in software is now void.

Plan for Coming Week

- **Sean** - Begin to plan how to create this K-means algorithm in hardware. Create lowest level hardware modules that will be needed.
- **Yishu** - Take on the residual stepper motor problem
- **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	14	55
Chi Hoe How	8	38
Yishu Mei	10	38

[Comments and Extended Discussions](#)

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