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|  | Mind Games |

Memo

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| To: | Dr. Song |
| From: | Joseph Doherty, Robert Fendricks, Ian Kowalski |
| cc: |  |
| Date: | April 7, 2014 |
| Re: | Week 4 Progress Memo |
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**Summary of Last Meeting**

* Discussed Memo format
* Discussed research findings and proposed structure of neural network

**Current Status**

* Software neural network is complete and measures run time (RF)
* A program to generate parts of the network dependent on number of units has been started (JD & RF)

**Work Done**

* Software implementation measures run time (RF)
* Shifter is completed and handles 2’s complement signed integers (JD)
* Generation program creates a register file and test bench (JD & RF)
* Continuous research (ALL)

**Current Objectives**

* Finish multiplier (IK)
* Look into embedded system on the zync
* Learn how to use on board ram with zync
* Decide on activation function
* Research FANN references
* Work on mid-term report

**Future Objectives**

* Implement activation function
* Implement unit controller

**Final Objectives**

* Units finished
* ARM programmed
* Network connected
* Network tested

**Red Flags**

* Ian’s plague
* Difficulties finding sources regarding activation functions
* Board delivery (should be this week)