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|  | Brain Network |

Memo

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| To: | Dr. Song |
| From: | Joseph Doherty, Robert Fendricks, Ian Kowalski |
| cc: |  |
| Date: | March 30, 2014 |
| Re: | Week 3 Progress Memo |
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**Summary of Last Meeting**

* Discussed new directions for research
* Received MIT Research paper.

**Current Status**

* Software neural network is nearly functional (RF)
* Multiplier and shifter implementation in progress (JD & IK)
* Boards have been ordered (ALL)

**Work Done**

* Discovered exciting opportunities to improve efficiency
  + Combining the functions of multiple layers into a single layer using layer multiplexing
  + Switched from floating point to integer
  + Changed weights to be shift magnitudes
* Continuous research

**Current Objectives**

* Finalize software neural network
* Finish math units
* Set up register array for weights
* Decide on activation function