weekly memorandum

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| to: | James Pettit |
| from: | Bradford Stricklin |
| subject: | srt week 5 |
| date: | October 4, 2015 |
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**LAST WEEK**

This past week, I successfully obtained the IMU straight from the Arduino via the serial port. This data, though still valid would is not calibrated or offset yet. I was able to find a program that already accomplishes this but instead uses I2C to communicate. I have been working on figuring this out with the IMU (as it designed to be compatible with I2C commands). On top of this, I have been working to connect the XBees over a Zigbee network. Though a two node network is simple, a three node network (one for launch control, one for launch pad, and one for the rocket itself) is more advanced and I am still working on sending directed messages between the nodes. Though I managed to connect two over a Zigbee network (from there it is trivial to attach a third), the only successful communication has been over broadcast (where all nodes receive the message).

**THIS WEEK**

This week I will continue to work with the IMU and hope to have the I2C communication set up so that we will have more control over what modes the IMU is in, as well as already having a working and tested IMU data collection and calibration program. If this is accomplished, I will move back to the XBees to work on the wireless network more.