

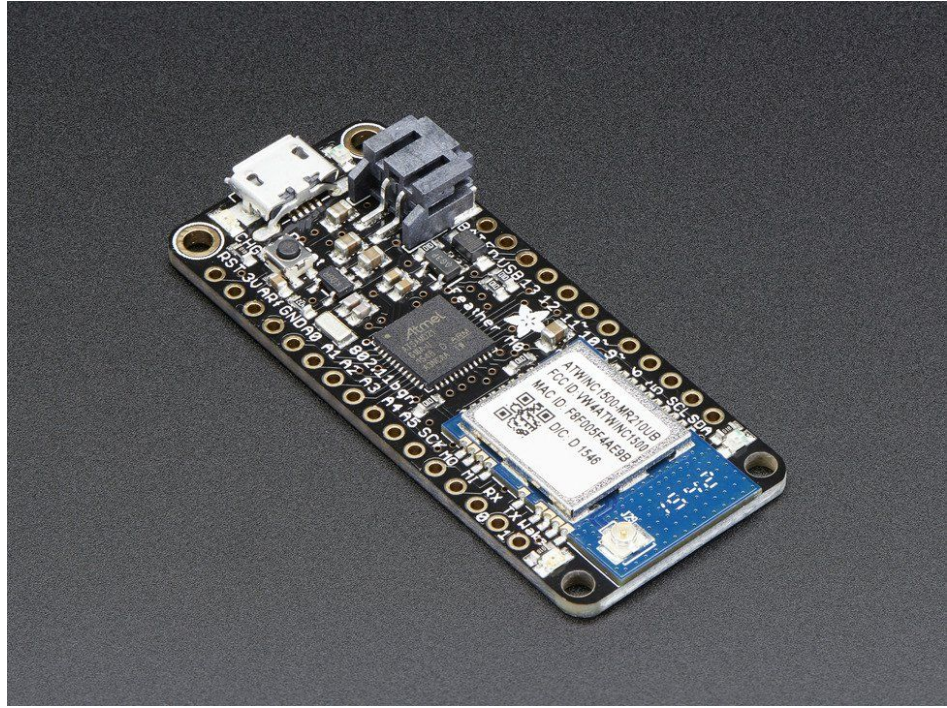
Design 2 Bi-Weekly Presentation 2

Smart Vibes
January 23, 2016



These Past Two Weeks....

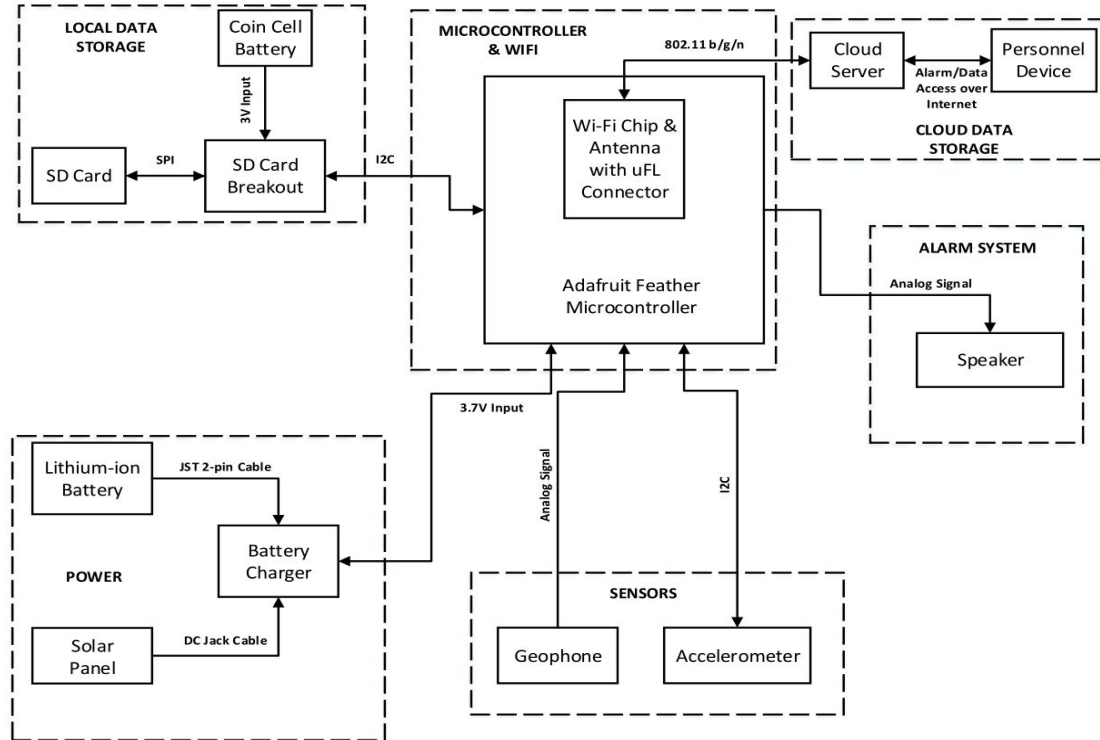
We started programming
the Adafruit Feather
microcontroller.



Modified the BOM

Vendor ID	Part Number	Quantity	Price/Unit	Part Description	Cost	Vendor	Datasheet
1120	LSM303	2	\$14.95	Accelerometer	\$29.90	Adafruit	PDF
2693	N.A.	2	\$19.95	16GB MicroSD Card	\$39.90	Adafruit	Website
2922	N.A.	2	\$8.95	SD Card Breakout with Coin Cell Battery	\$17.90	Adafruit	PDF
3061	N.A.	1	\$34.95	Adafruit Feather	\$34.95	Adafruit	PDF
353	N.A.	2	\$29.50	6600 mAh 3.7V Lithium-Ion Battery	\$59.00	Adafruit	PDF
2747	N.A.	1	\$88.95	Solar Panel	\$88.95	Adafruit	Website
579-MCP73871-2CCI/ML	MCP73871-2CCI/ML	1	\$1.94	Battery Charger	\$1.94	Mouser	PDF
N.A.	474-SEN-11744	1	\$61.25	Geophone	\$61.25	Mouser	PDF
39RL33	N.A.	1	\$34.75	White Nylon Filament for 3-D Printer	\$34.75	Grainger	Website
2788	N.A.	1	\$0.95	DC Jack Adapter Cable for Battery Charger	\$0.95	Adafruit	Website
581-TAP475K016SCS	TAP475K016SCS	1	\$0.67	Tantalum Capacitor for Battery Charger	\$0.67	Mouser	PDF
261	N.A.	1	\$0.75	JST 2-pin Cable for Battery Charger	\$0.75	Adafruit	Website
PMT-37N28AL01-04-ND	PMT-37N28AL01-04	1	\$8.57	Speaker	\$8.57	Digi-Key	PDF
2308	N.A.	1	\$2.50	Antenna with uFL Connector	\$2.50	Adafruit	Website
Total Cost					\$381.98		

Modified the Functional Diagram



What's Next



- Keep programming and familiarizing ourselves with the microcontroller.
- Order the parts in our BOM.
- Work on the design of our housing using prototyping foam.

Work Distribution

Joshua Watkins - Mechanical/Design

Marc-Edwin Rigaud - Programming

Jordan Faison - Electrical/Design/Programming

Ezequiel Juarez - Electrical/Programming

Questions? Comments? Compliments?