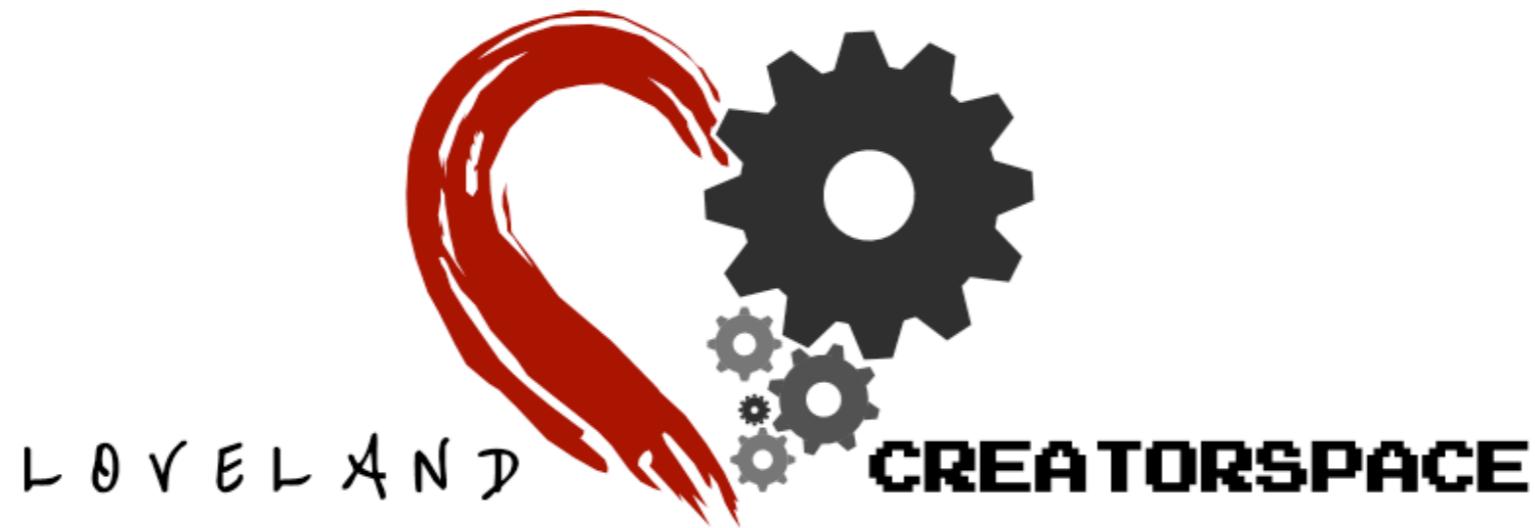


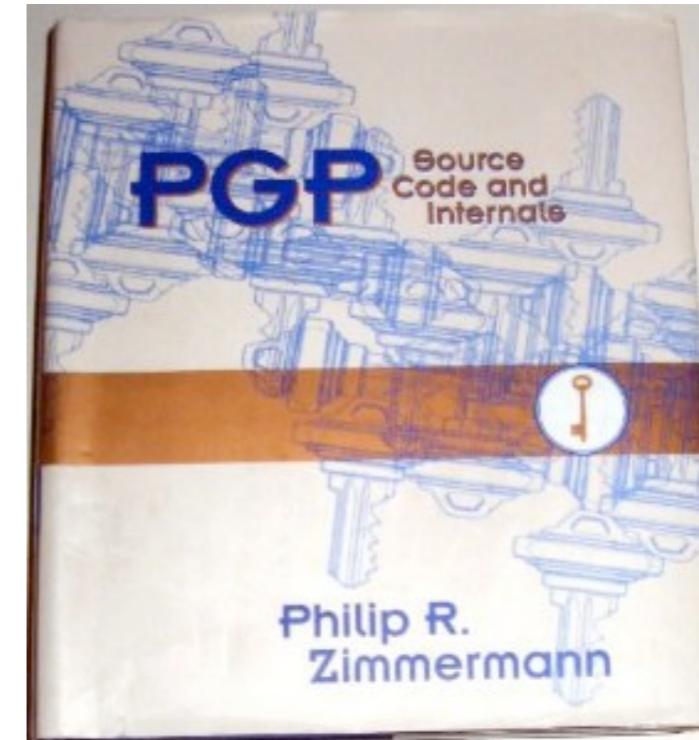
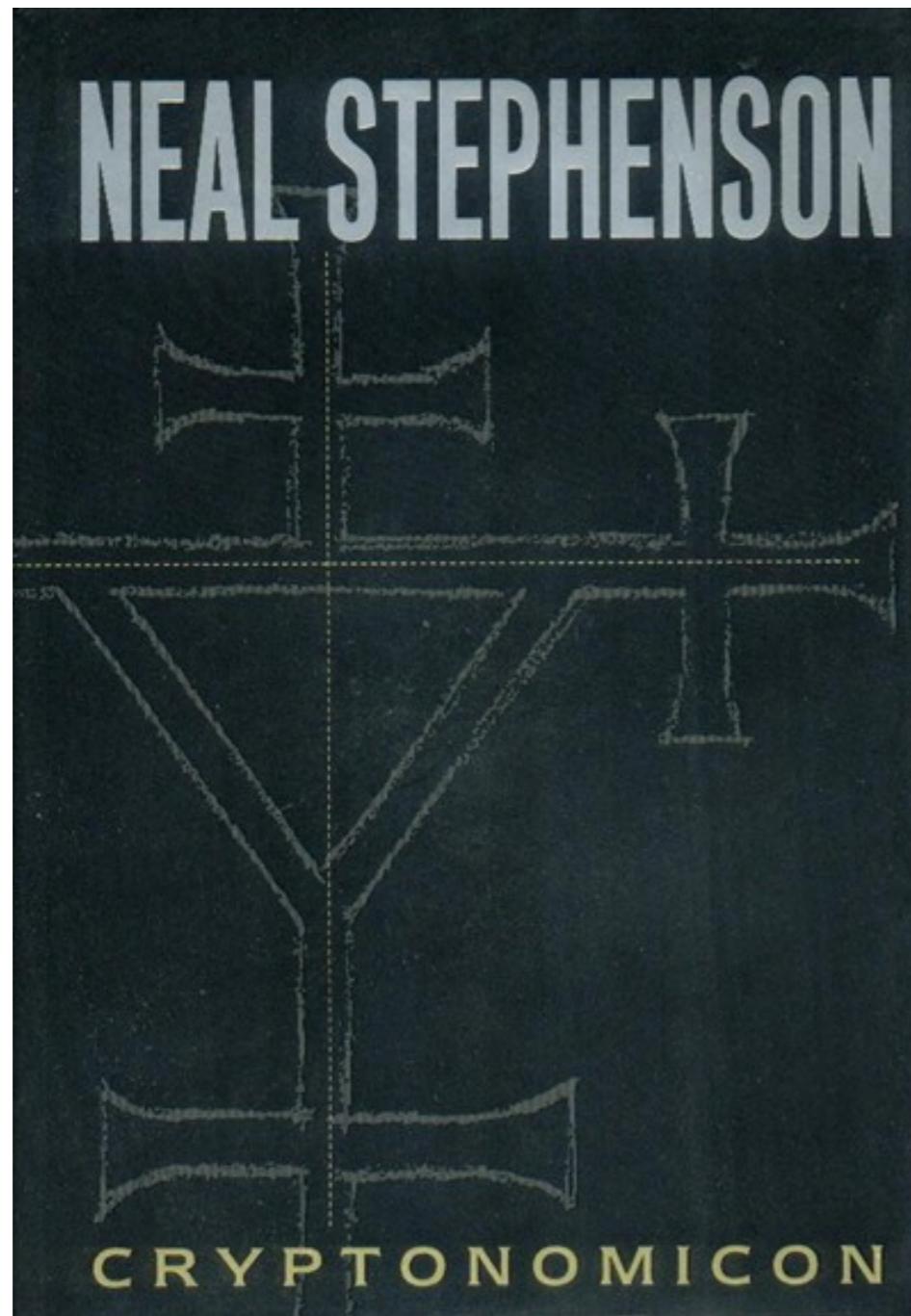
Crypto for Makers



Josh Datko
www.datko.net



What Started it All



Interlude



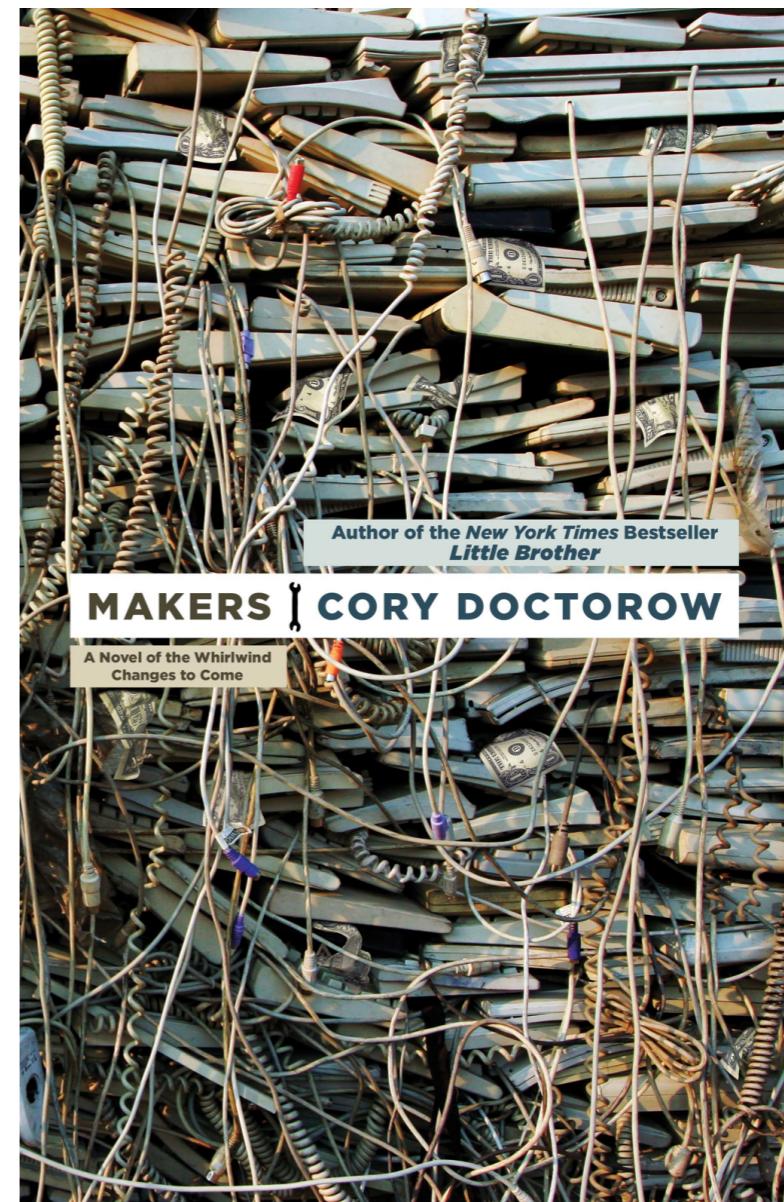
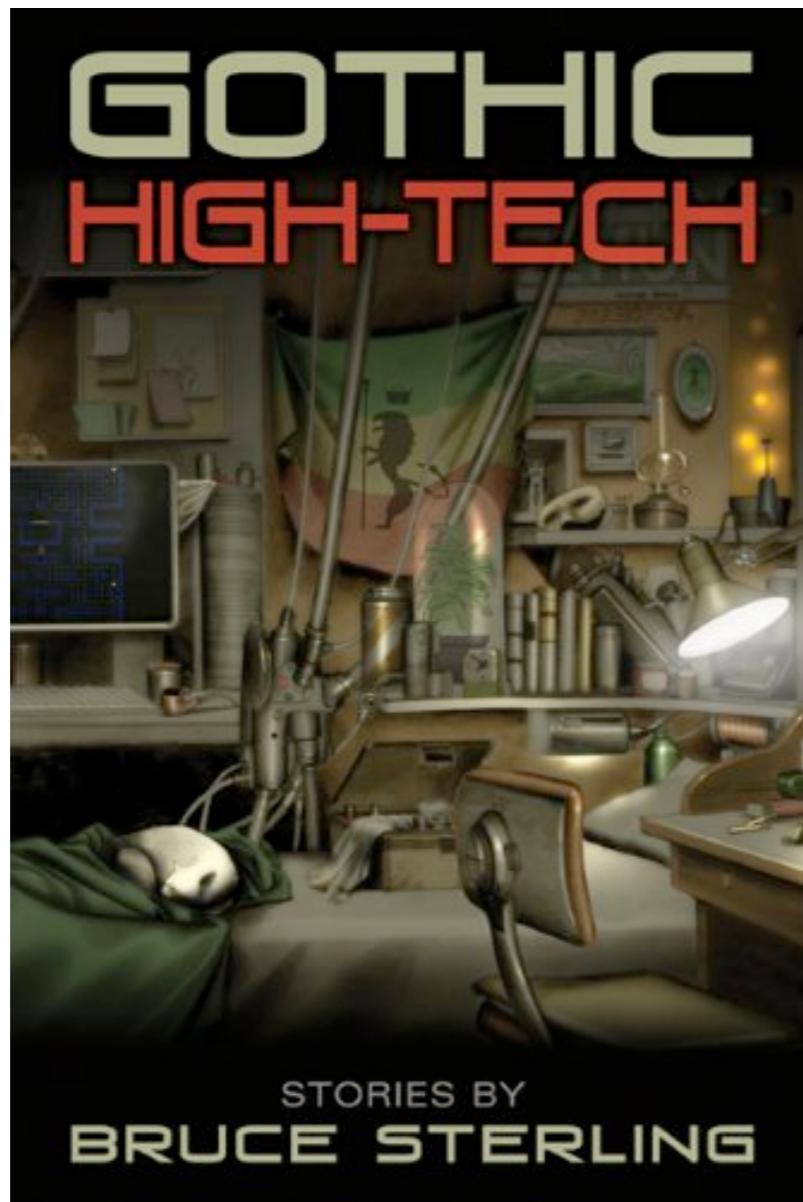


**FREE SOFTWARE
FOUNDATION**

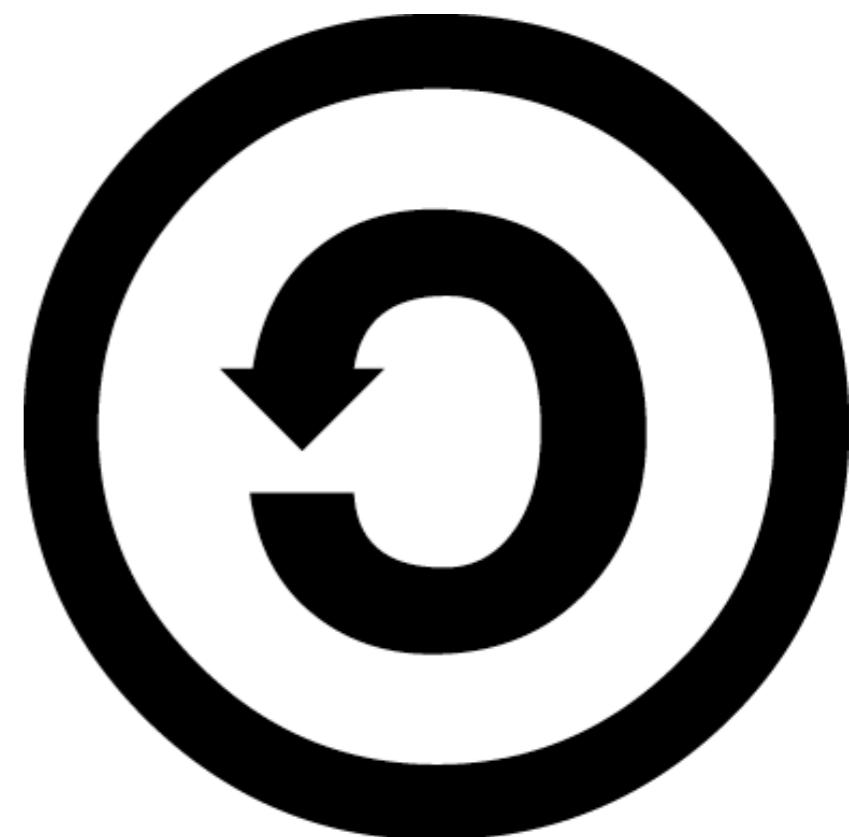
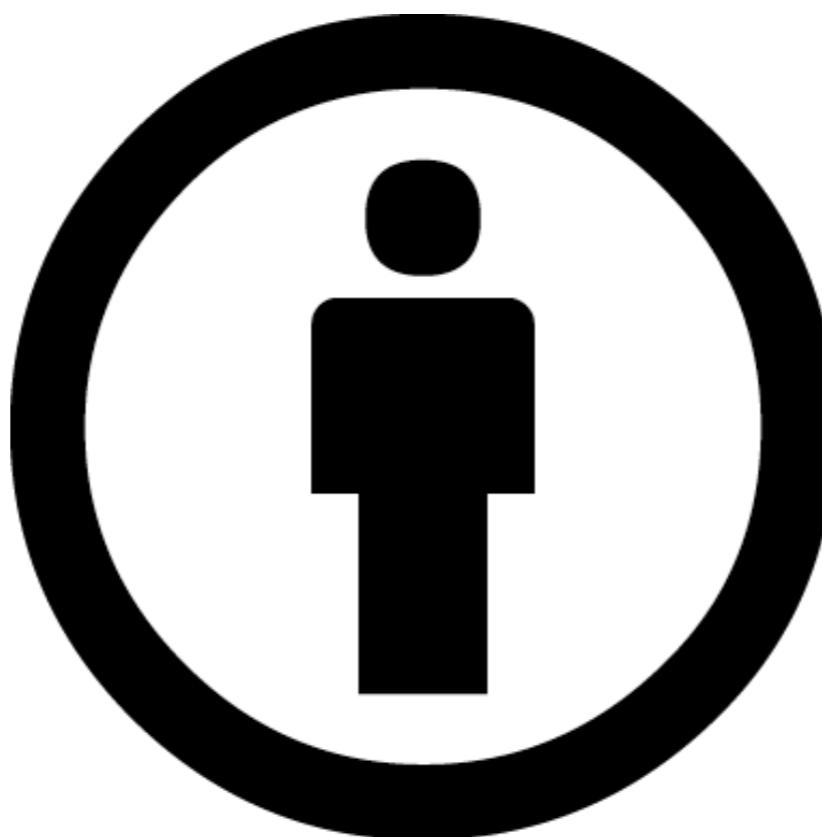


**open source
initiative**

The Maker Movement



Creative Commons





open source
hardware

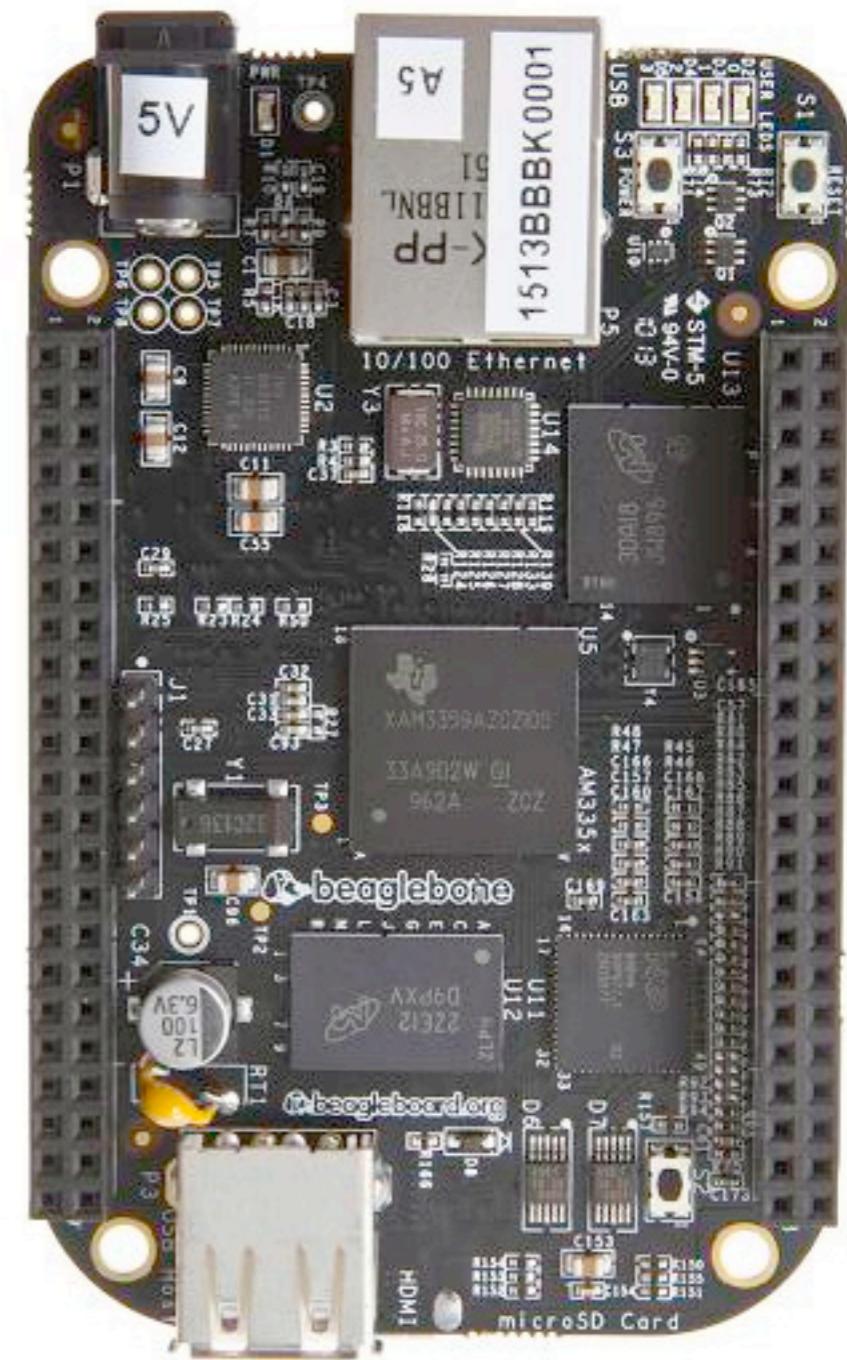
Why I care about Privacy and Security

- I've Got Nothing to Hide
 - Daniel J. Solove
- Why Johnny Can't Encrypt
 - Whitten, Alma, Tyger, J.D.
- Adversarial Stylometry
 - Brennen, Michael, et. al.
- *I want to help protect individual privacy and security on the Internet*



What's a BeagleBone Black?

- AM335X 1GHz ARM Cortex A8 (via TI)
- 2GB eMMC
- 512MB DDR3L 400MHz RAM
- Power: miniUSB or 5V DC
- Ethernet
- USB Client / Host
- HDMI Out
- SPI, GPIO(65), I2C, 4 timers, 5 serial ports, 8 PWM ports, 7 analog inputs
- Loaded with Angstrom Linux, easily flashed for Debian / Ubuntu, whatever



Why run Tor on a BBB?

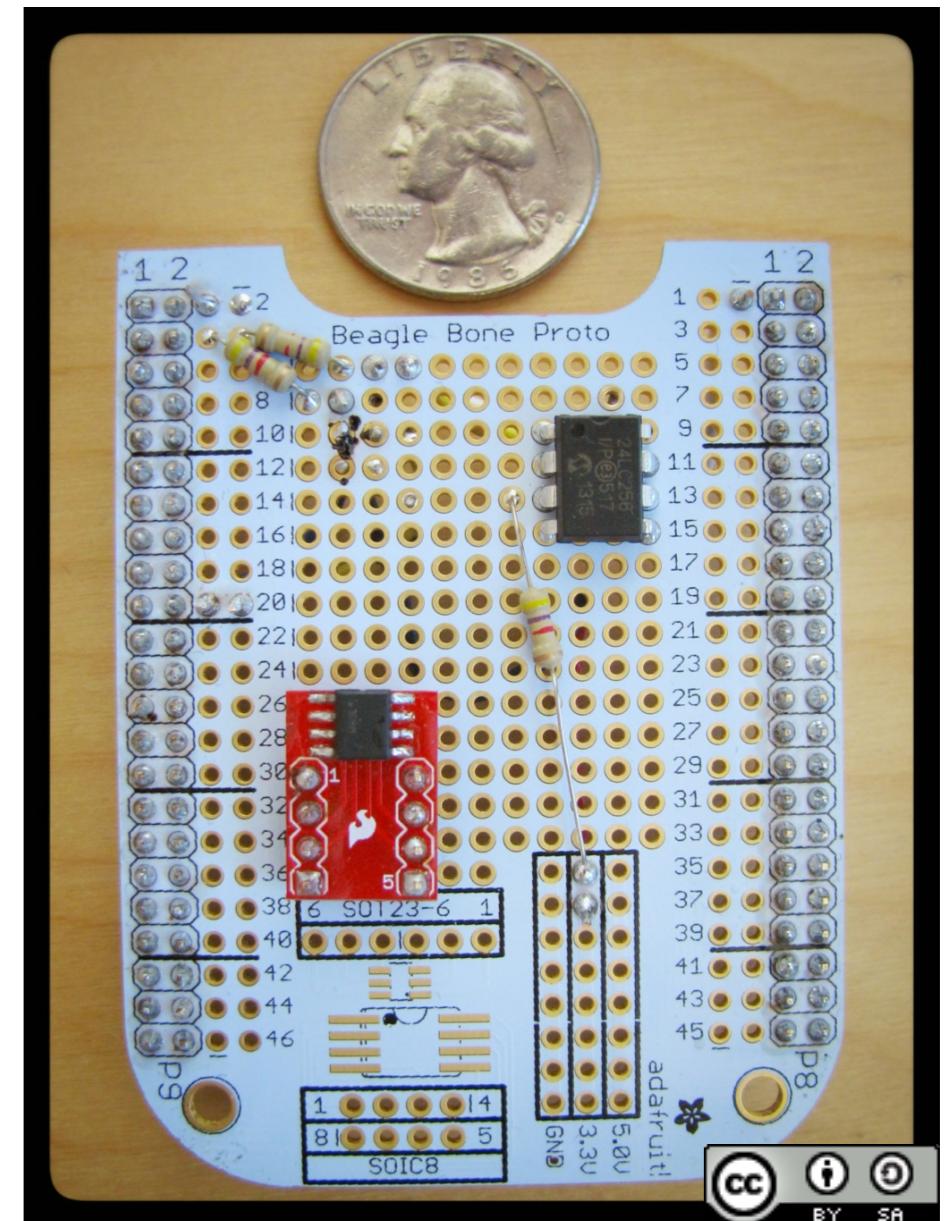
- I run my BBB 24x7 (it's better for the environment :p)
- I don't want CPU resources consumed on my main box.
- I want to contribute bandwidth and support the tor project.





CryptoCape

- Adds hardware security features
 - Random Number Generator
 - Protected Key Storage
 - Battery Backup RTC



www.datko.net/cryptocape

LCS First Class

- Piratical Internet Privacy with Tor
 - Road Narrows Robotics
 - 6:30 PM
 - Bring a laptop!
 - PWYW (\$5 suggestion)