

BlackChat

Incognito Messaging System

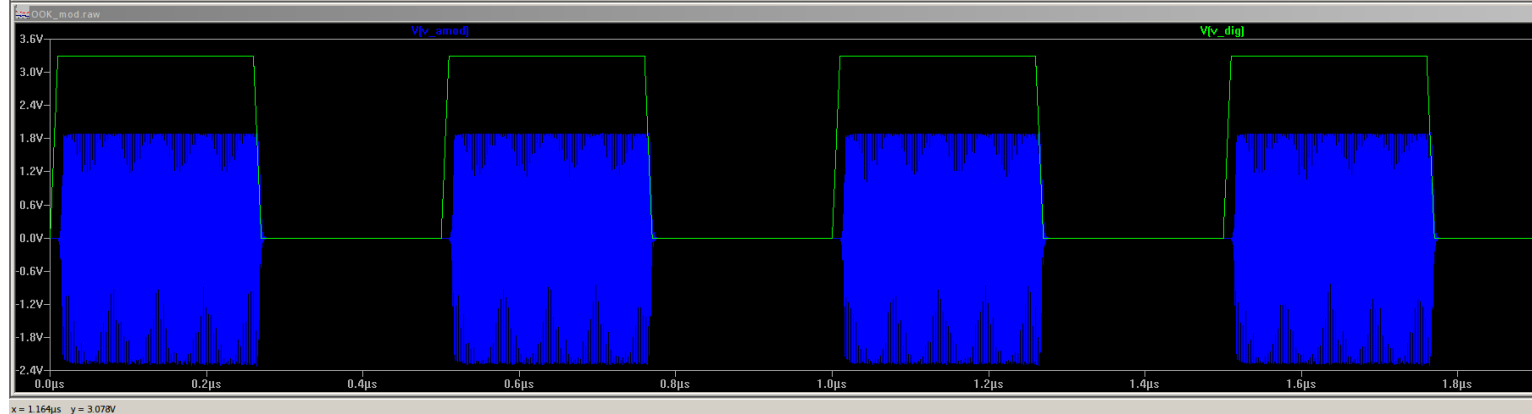
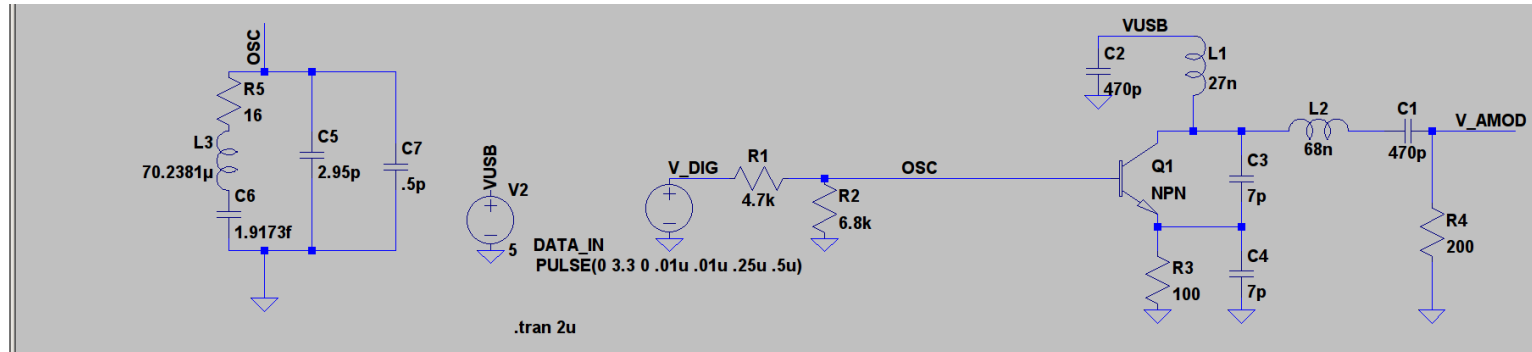
Alpaca Security Solutions

System Level

- External USB device for wireless text messages
 - AES-128 encryption
 - Portable Linux interface
- Discrete RF transceiver
 - 433MHz ISM band
 - OOK modulation scheme
 - <100mW broadcast power

Hardware

Simulations – Modulator



Simulations – LC Tank

Software

Division of Labor

Timeline

Stretch Goals

- >2 module communication
- Miniaturization
- OS ambivalence (Windows compatibility)