COMPUTER ENGINEER: *a cheat sheet*

* Setting up email forwarding
  + Go to <https://manage.www.namecheap.com/myaccount/modsingle.asp?domain=wsbf.net&type=eforward>
  + Have people who had their email change go to accounts in Gmail, import, and then ‘send mail as.’
* IP addresses to know
  + 130.127.17.2
    - Windows machine – We currently do not use this machine for much of anything, although it does house some important looking documents, so it’s worth knowing about.
  + 130.127.17.4
    - new.wsbf.net/web sever/john – Our current bread n butter, the webserver. You will need to use this computer to add carts/PSA’s, edit the website, and other important things. Wsbf.net is also hosted on this server.
  + 130.127.17.5
    - Automatrix – this is the linux machine in Studio A. You may need to log into this computer to reboot it remotely to fix a computer problem a DJ is having. You may also need to run some mount commands (i.e. sudo mount -a) to get the digital library mounted.
  + 130.127.17.6
    - Transcode/fuck – This machine is used solely for streaming our radio waves to the internet. Don’t ask me why it is/was called fuck. I do not know. You may need to restart this machine in the case of a blackout/crash to ensure streaming is up
  + 130.127.17.39
    - Archiving Machine/digital library/John – This machine is currently being used to house all of our digital archives/library. You can grab these archives by using an FTP client and navigating to /media/BC\_China/archives if one is ever requested.
  + 130.127.17.40
    - DJ Studio Computer – This will probably never need to happen, but you can remotely log in to this computer to restart it if need be.
* PHPMyAdmin
  + You will undoubtedly need to use this to modify carts, set intern status, modify shows, reset passwords, get general info from our database.
  + You will receive a plethora of emails from people asking for intern status, this is set by going to new.wsbf.net/phpmyadmin, hit the ‘users’ table, search for the person (I use first name or username if they provide it in the email) then simply change their status to 5 (intern).
* **IN CASE OF POWER OUTAGE** – Please, follow these steps to the best of your ability:

1. Go to transmitter.  Ensure transmitter and exciter are on.  If not on, turn on.
2. Ensure transmitter computer is on.  If not on, turn on.  Backup automation and transmitter management software will start automatically.
3. Call someone near a radio; see if they can hear Backup Automation.  If not, more than likely the Forward Voltage on the transmitter / exciter is at the correct level.  If that is the case, the problem is probably the detangler.  Reset the detangler (There are instructions for this below).
4. Return to station.
5. Power on the Power Edge server that runs Windows Server 2003.  This hosts ZAutolib, the automation / cart machine / DJ studio library.  It is required for George the WebServer hosting [new.wsbf.net](http://new.wsbf.net/) and [wsbf.net](http://wsbf.net/) for various services.  It is also required for Automatrix, the machine that runs automation, for obvious reasons.  It needs to be online and accessible by George the Web Server and Automatrix before we can move forward.
6. Restart George the Web Server.  This will automatically mount the ZAutolib and ensure that George gets an IP Address.  In some cases, power will come back on and machines will boot back up before the internet switches n the building reinitialize and give out IP Addresses.
7. Restart Automatrix.  When George is up, Automatrix will be able to mount ZAutolib through George (Not PowerEdge Windows 2007 Server)
   * (7.1) Ensure Automation, DJ Studio and Cart Machine are running and carts/automation has loaded tracks.  If not, ZAutolib is not mounting correctly, either because of a problem with George's internet, Power Edge Server's internet or Automatrix's internet.
   * (7.2) How long has the station been down?  If it's longer than 4 hours, we need to play the SignOn Cart.  In DJ Studio, search for psa, it should be the first on the list.
8. Start automation.
9. Restart Transcode, the server that runs DarkIce, our audio streams.  Transcode delivers the streams it pulls from Studio A to George, which runs an IceCast server.  George then serves streams to listeners.
10. Sign into John and restart the computer.  Archiving should start automatically; not yet, but soon (TM).

And voila, this is how we fix the station in the event of a power outtage. – Yates

* How to fix streaming issues
  + At the time of writing, performing the following action on the digital detangler usually gets streaming back up and running again:
    - Either do this yourself, or call into the studio and have the DJ on air do this
    - Turn detangler off and on again
    - Hit load once
    - Hit route twice
    - Boom
    - This can also be used to fix broadcasting on the radio if that ever stops.
  + If that doesn’t work, then reboot transcode.
  + If these two things don’t get online streaming back up, call Matt Rana.