**Decision Matrix Criteria:**

* Cost
  + How much will this cost to build
* Difficulty / Assembly
  + Networking
  + Available Chips
  + Etc..
* Aesthetics
  + Can this device look “good” to the user?
  + Does it sound cool?
* Functionality
  + “Technical” Criterium
  + Does it “do” a lot - technically
* Practicality
  + “Consumer” Criterium
  + Does it have attractive features?

**Practicum Project Proposals:**

* Automated Streetlamp
  + Programmable Brightness
  + Power Regulation (MAINS)
  + Battery?
  + http://www.electronicshub.org/auto-intensity-control-of-street-lights/
* Laser Shotgun
  + It’s a laser shotgun
* Environmental Monitor
  + Preferably Networkable
  + DAS
  + Multiple “environmental” sensors
* EEG / EKG / EMG
  + DAS
  + Use one of the above technologies to control something
  + http://www.instructables.com/id/Muscle-EMG-Sensor-for-a-Microcontroller/
* Some sort of pattern game?
  + Simon-esque
  + bop-it
* BlueTooth Sensor Array with LE
  + Has on-chip FHT (REAL FFT)
  + Microphone, Analog pins, light, and etc..
  + DAS
* USB Control system for LED lighting
  + Support MIDI over USB
  + On-board PWM Drivers (high power) with multiple channels
  + Optional MIDI output
  + Optional IR
* MultiBlast - An Ultra-simple programmable IR Remote blaster
  + Pretty and small
  + Rechargeable battery
  + Programmed with learning
* Laser to control RC
  + RC that defects Laser and follows.