B.Eng. Audio Visual Media Technology
3rd Year Projects from 2012

As part of their final year, students complete an individual project which makes use of the skills and principles which they have learnt on the programme. Here is a selection from 2012 – the project descriptions are written by the students themselves.

8x8x8 LED Cube
This is a cube constructed entirely from bright blue LEDs that can display animations and text. There are 512 LEDs in total. Each LED can be addressed individually, which means the possibilities for animations are endless! Created using an Arduino microcontroller.

Tube Guitar Amp
For my 3rd year project I built a tube guitar amplifier. The model I decided to build was the P1-eXtreme from ax84.com. It is an evolution of the original P1 design and pushes the original design to a higher output. It does this by increasing the preamp gain, along with an octal power tube running at higher rail voltages for a bigger sound.

Bass Synthesiser
I chose to build a x0xb0x for my final year project at IADT. A x0xb0x is a 500 piece clone of the famous Roland TB-303 Bass Synthesiser. I chose the x0xb0x as it is the best replica (reverse engineered by an M.I.T. student) of the original TB-303. My interest in the TB-303 stemmed from the defining role it had in the development of contemporary electronic music.