

# Nathan Myers



## Personal Details

Birth Year: 1986  
British Nationality  
Married, with one son  
Full Driving Licence  
Current Location: East Northamptonshire, UK

## Profile

I have many years of experience as an audio engineer, including a year as a full-time professional with a live production company, and now wish to further my career in hardware design. I not only enjoy applying my knowledge to solving electronic and audio system issues, but also in seeing a project through from concept to completion. I am self-motivated, hard working and a quick learner, and I have strong analysis and practical problem-solving skills.

## Education

### University of Huddersfield

2004–2008

First Class Honours in BSc Music Technology and Audio Systems (sandwich course)  
The Arbiter Group Prize for the Best Music Technology Student 2007-2008

### Final Year Project

For my final year project, I built an innovative DSP system to vastly reduce calibration times of delay speakers at live events which, built as a mains-powered, functional prototype, has the potential to become a marketable product. The design was based on a 40-pin dsPIC microprocessor (selected after researching alternative hardware solutions) and programmed using a Microchip development board and MPLAB IDE software. Microsoft Visual C++ was used to simulate the audio measurements and develop the required processing algorithms. These algorithms were then transferred to the real-time dsPIC microprocessor, and SPI connectivity was established to an LCD character display along with LED's as outputs. An audio pre-amplifier circuit was built to regulate the input from a small electret microphone, and an oscilloscope used to analyse the audio and logic characteristics and debug the system.

### Caldy Grange Grammar School

1997–2004

#### 4 A levels

Maths (Mechanics option)	A
Computing	B
Physics (Electronics option)	C
General Studies	C

#### 11 GCSEs

Maths	A*	Electronic Products	A*
Music	A	Religious Studies	B
Physics	B	English Language	B
Biology	B	English Literature	C
Chemistry	B	French	C
Geography	C		

## Skills and Experience

- Analogue electronics: Design of transistor amplifiers, filters and power amplifier circuits.  
Accurate use of soldering iron, multimeter, oscilloscope; knowledge of timers, logic, PCB design software.
- Digital electronics: Embedded programming and audio DSP on PIC and SHARC processors, SPI connectivity.
- Programming in C, C++, HTML, PHP, MFC, VB, familiar with MPLAB and Microsoft Visual Studio.
- Excellent knowledge of Microsoft Word, Excel, Powerpoint and Outlook. Average typing speed of up to 55 w.p.m.
- Live sound engineering, studio recording and post-production (Cubase, Nuendo, HALion), event management.
- Sound design and manipulation, using Reaktor to create instruments, synthesisers and effects.
- Planning, organising and leading training courses, using excellent verbal and written communication.
- Able to take initiative, be adaptable and work under pressure both individually and as part of a team.

## Other Qualifications

- Full UK Driving Licence.
- First Aid Certificate (St. John's Ambulance).
- Sign Language Stage 1 (Basic Certificate in British Sign Language).
- Grade 5 Piano and Grade 3 Cello (ABRSM).
- Climbing instructor (MLTE SPA).
- Paddlesport coach (Canoeing and kayaking; UKCC Level 1, Level 2 trained).
- Fencing instructor (British Fencing).
- Archery instructor (GNAS).

## Work Experience

My current position was a unique opportunity offered to me 5 months before graduating, working in the outdoors with my wife as an instructor. Having started a family, I now wish to establish my long-term career in hardware design.

### Outdoors Instructor

May 2008 – Present (Frontier Centre, Rock UK)

*Leading outdoor activities for different clients' needs; working either as part of a team or individually as required; detailed inspection and testing of safety equipment; organising and leading training courses.*

### Audio cable manufacturer and website developer of [www.enjah.com](http://www.enjah.com)

May 2007 – Present (Self-employed part-time business)

*Establishment of my own business to manufacture and market high quality audio cables and adapters.*

### Trainee sound engineer

July 2006 – August 2007 (Limelight Presentation Systems)

*Sound engineer and system technician for live events and broadcasts; electrical maintenance of sound and lighting equipment. The work involved fast-paced accurate work, rigging at heights and team management. Examples of festivals and events at which I was stage technician include The Fratellis, The Hoosiers, Gareth Gates, Amy MacDonald, Beverley Knight, Bucks Fizz, Right Said Fred, Jimmy Carr, and several TV broadcasts.*

### Trainee sound and lighting engineer

June - July 2005 (ACTS Sound and Lighting)

### Other part-time jobs:

Administrator of internet book orders (1999 to 2004); kitchen porter/waiter (2003); car valet (2004);

## Voluntary Work

- Sound Engineering and Crewing Work. 2002 – Present.
- Website design, building dynamic sites using HTML and PHP. 2009. [www.rushdenmission.co.uk](http://www.rushdenmission.co.uk)
- Lighting Design, Rigging and Operation for school theatrical performances. 1999 – 2006.
- Video: Live Mixing, Computer Overlays, Camera Operation and DVD Production. 2001 – 2005.
- Vice President of the Huddersfield University Christian Union (Spring 2005 – Spring 2006)

## Interests

- Playing bass guitar in church worship band, and occasionally drum kit, djembe, cello and piano.
- Outdoor activities including rock climbing, walking, mountain biking and canoeing.
- Children's group leader for Crusaders, Vengabuzz and other holiday clubs.
- Whittling, gardening and home-improvement projects.