

IAIN McARTHUR
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Professional Profile

I have previously worked in the film industry within the Research & Development Department of AMS - Neve, developing audio mixing desk technology as Lead Software Test Engineer on their flagship product the DFC: Digital Film Console (Over 70% of the world's blockbuster films are mixed on D.F.C.). In 1999 whilst working there, the company/R&D Dept. was awarded a Technical Oscar by the Academy of Motion Picture Arts and Sciences.

I have 23 years' experience working as an Independent Forensic Audio / Video Enhancement and Transcription Specialist in serious crime for:

- **Most UK Police agencies**
- **MET Special Ops**
- **Special Branch**
- **PSNI,**
- **PSNI T.I.U. (Terrorist investigation unit)**
- **HMRC Investigations**
- **S.O.C.A.**
- **E.M.S.O.U.**
- **Contracted for all forensic audio and video work for the Royal Military Police in the aftermath of the Iraq war.**
- **International Chamber of Commerce**

I have trained the Metropolitan Police video unit and the Hungarian Secret Service in Video enhancement, presented training talks at Cheshire, PSNI & GMP Police College CID courses and undertaken work on high profile cases such as the Milly Dowler murder enquiry, the death of the BBC journalist Terry Lloyd, the Rhys Jones murder enquiry, the Daily Mirror's Iraqi fake photograph story, the Glasgow Bin Lorry Enquiry, analysis of Raoul Moat audio footage for Sky News and worked on numerous high profile murder enquiries and investigations throughout the UK, Ireland, Australia, the Middle East, North and South Africa.

I have:

- 30 years' experience as a professional sound & video technician
- 23 years' experience in field of forensic audio, video & still image enhancement & analysis
- Video enhancement-tracking & stabilising of shaky & poor quality video (using Video Analysis) software-a NASA designed system used to analyse the Columbia Space Shuttle disaster.
- Unsurpassed audio enhancement, analysis and transcription
- Height estimations
- Detailed transcription of noisy recordings for court presentations
- Clothing, Vehicle, facial & object/weapon comparison
- Analysis of audio & video recordings for signs of editing or tampering
- Subtitled transcriptions on DVD of telephone calls & video recorded conversations
- Still image and DVD or data stick copies from VHS or digital CCTV
- Damaged audio, video DAT & Dictaphone tape recovery
- Video de-multiplexing of up to 128 cameras

- Face blurring of witnesses & number plates
- Reconstructions & Computer graphics (CGI) simulations
- Voice pitching to disguise witnesses

Academic Qualifications

HNC Engineering

OND Electronics & Sound Recording

Forensic Science Career

I undertake work for both prosecution and defence in criminal cases. Some of the most notable cases I have worked on throughout my Forensic Science Career are:

- **PSNI Londonderry: Blackmail/ Paramilitary PSNI Counter Terrorism (2017):** Onsite work doing anti surveillance analysis and video work related to aerial surveillance of 2 x terrorist suspects. A purely circumstantial case resulting in the 'guilty' pleas by both defendants and subsequent convictions for firearms offences.
- **PSNI MIT: Blackmail/ Paramilitary Counter Terrorism (2017):** Clothing comparison work related to a blackmail /Paramilitary case (ongoing).
- **PSNI Counter Terrorism (2016):** Clothing comparison and video enhancement related to the discharge of a firearm within a bar resulting in the 'guilty' pleas by both defendants and subsequent convictions for firearms offences.
- **Glasgow Bin Lorry Enquiry (2015):** Working for the Procurator Fiscal specifically engaged to accurately calculate the speeds of the Bin Lorry as it progressed along Queen Street in Glasgow.
- **Suzanne Tamim murder enquiry (for defence) in Cairo, Egypt.** Egyptian Billionaire Hisham Talaat Moustafa, a member of the ruling National Democratic Party, with a seat in the Shura Council, the upper house of parliament, and a personal friend of the Egyptian president's son, his bodyguard sentenced to death for the 2008 murder of Moustafa's ex-girlfriend in her Dubai apartment.
- *UN Enquiry (2013) into shootings of South African miners (2013) Video and audio analysis relating to gunfire and orders given by Police.*
- *UN Enquiry (2007) into Assassination of Rafic Hariri (Lebanon) no court attendance. Video analysis of vehicle carrying the bomb.*
- *Defence of allegations of match fixing against John Higgins (World Champion) Video analysis for signs of malicious editing (proved) audio analysis and accurate transcription to counter false News of the World transcription.*
- *Analysis into the death of Mark Duggan (audio and video footage for the BBC news enquiry - leading to the 2012 riots in the UK)*

- ***Analysis work/ interview on the Death of Raoul Moat (For Sky News). Audio enhancement work to conclude three shots were fired in three seconds (Tasers and shotgun). Interview to camera for news item.***
- ***Trial (1) of Levi Bellfield (Defence) Video analysis, witness statement analysis relating to video timeline and car comparisons (I agreed with prosecution evidence).***
- ***Trial (2) of Levi Bellfield (Milly Dowler murder -Defence) Video analysis, witness statement analysis relating to video timeline, VRN analysis, home video footage analysis, audio enhancement and car comparisons.***
- ***The Rhys Jones murder trial (Prosecution work: Merseyside Police/SOCA) Audio enhancement, transcription, voice attribution, video subtitling to final DVD for court use.***
- ***E.M.S.O.U. (East Mids. Special Operations Unit) (2012) a case involving Cross County cash machine robberies. I undertook clothing comparisons on headwear and clothes observed worn by the suspects vs seized clothing resulting in successful convictions.***
- ***OP Seafield murder enquiry (Strathclyde Police) Vehicle comparison/ reconstruction.)***
- ***The case against John McGeechan (Murder) Strathclyde Police (Ayr) DS Kenny McAlpine court attendance Kilmarnock Crown Court. Found guilty. Height estimation, video enhancement, clothing and hat comparison, facial comparison, audio enhancement and transcription of 999 call.***
- ***Lincs Police (Op Mundi, Op Lancaster, Op Moral, Op Ratio, Op Tindall) no court attendances (evidence accepted). Video enhancement, clothing comparisons, car comparisons.***
- ***North West Regional Crime Unit (2011) Armed Robbery (Clothing/Vehicle Crash helmet comparison/ reconstruction.)***