

Expert CV

Iain McArthur

Expertise

Audio/Video Forensics (Analysis, comparisons, enhancement, transcription & editing of audio video and still image evidence)

Qualifications

- BTEC OND (1984 - 1986) in acoustics, sound recording & electronics from Salford College of Technology
- Video Analyst System Training (2003). A course in Huntsville Alabama at Intergraph's HQ in video analysis & enhancement techniques

Case history and/or statistics

- Extensive experience in court (Crown Court in England, Wales, Scotland, Ireland, France and Military Tribunals/Court Martial)
- Involved in roughly 250 criminal and civil cases per year including the following:
 - The Glasgow bin Lorry enquiry (CCTV analysis/enhancement and speed calculation of the bin lorry along its route).
 - Single Joint Expert for the International Chamber of Commerce (Paris) 2014 (Commercial Case) looking for signs of editing.
 - Suzanne Tamim murder enquiry (for defence) in 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 <http://news.bbc.co.uk/1/hi/8061458.stm>
 - UN Enquiry (2013) into shootings of South African miners (2013) Ongoing 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) no court attendance-fined but no court attendance. Video analysis for signs of malicious editing (proved) audio analysis and accurate transcription to counter false News of the World transcription.
- Analysis of audio and video footage for the BBC news enquiry into the death of Mark Duggan(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.
- Analysis work on fake photos published of the King of Sweden for Swedish newspaper Esspressen 2011
- The enquiry into the death of Baha Musa (Iraq) (for Royal Military Police)
- The enquiry into the death of ITN journalist Terry Lloyd case – 2006 (Iraq) (for Royal Military Police)
- The enquiry into the fake Iraqi prisoner abuse photos published by the Daily Mirror photograph case – 2004 resulting in the sacking of the editor Piers Morgan (for Royal Military Police)
- Trial(1) of Levi Bellfield (Defense) no court attendance-found guilty- 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 -Defense) no court attendance-found guilty. 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) no court attendance-all found guilty. Audio enhancement, transcription,voice attribution, video subtitling to final DVD for court use.
- OP Seafield murder enquiry (Strathclyde Police: DCI Iain Cunningham :Govan) Vehicle comparison/ reconstruction) no court attendance-found guilty
- The case against John McGeechan (Murder) Strathclyde Police: 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 attendance. Video enhancement, car comparison, clothing comparison,
- North West Regional Crime Unit (2011) Armed Robbery (Clothing/Vehicle Crash helmet comparison/ reconstruction) no court attendance-found guiltyThe MillyDowler Murder Enquiry - 2011
- R v Harvey - Attempt murder of pupil by Teacher - 2010
- The Barnes murder investigation for PSNI Belfast– 2006

General Background

Mr McArthur has worked in the Research & Development Department of renowned Pro-Audio manufacturer AMS -Neve, developing audio mixing desk technology for the film industry. He was 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.) and his responsibilities were in Software Development and Testing, Training and Customer Support. In 1999 whilst working there, the company /R&D Dept. was awarded a SCIENTIFIC AND TECHNICAL AWARD (Oscar) by the Academy of Motion Picture Arts and Sciences for the Digital Film Console. He has 23 Years experience working as an Independent Forensic Audio / Video Enhancement and Transcription Specialist for many UK Police agencies undertaking all forensic audio and video work for the Royal Military Police in the aftermath of the Iraq war. A registered expert advisor with the Police National Crime Faculty (NPIA) database he has trained the Metropolitan Police video unit and the Hungarian Secret Service in Video enhancement and undertaken work on high profile cases such as analysis of Raoul Moat audio footage for Sky News, the Milly Dowler murder enquiry, the death of the BBC journalist Terry Lloyd, the Rhys Jones murder enquiry and the Daily Mirror's Iraqi fake photograph story and worked on numerous high profile murder enquiries and investigations throughout the UK, Ireland, the Middle East and South Africa.

- 28 years' experience as a professional sound & video technician
- 23 years' experience in field of audio, video & still image enhancement & analysis
- Advanced enhancement, tracking & stabilising of shaky & poor quality video using Video Analyst software - a NASA-designed system used to analyse the Columbia Space Shuttle disaster & the only privately owned system outside the USA
- Unsurpassed audio enhancement & analysis
- Damaged audio, video & dictaphone tape recovery
- Detailed transcription of noisy recordings for court presentations
- 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 copies from VHS or digital CCTV
- Video de-multiplexing of up to 128 cameras
- Vehicle, clothing, facial & object comparison
- Face blurring of witnesses & number plates
- Computer graphics (CGI) simulations