

Calum Brookes

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EDUCATION

UNIVERSITY OF SALFORD

BSc BROADCAST ENGINEERING

First Class Honours

BIRM. CITY UNIVERSITY

MSC BROADCAST ENGINEERING

Distinction

SKILLS

PROGRAMMING

Languages:

Java • Bash • Python • LaTeX

Matlab • C • C++ • SQL

ENGINEERING

Interested Fields:

Service Management

Workflow Improvement

Incident Management

Project Engineering

Requirements Assessment

Technical Documentation

IP Infrastructure

Broadcast Hardware

TV & Radio Distribution

Broadcast Automation

Systems Integration

Control Software Dev (BNCS)

Virtualisation Technologies

Monitoring Tools (Icinga/Nagios)

ACADEMIC COURSES

TRAINEESHIP

Studio & Broadcast Technology

Digital Workflow Technologies

Research Methods

Coding & Digital Signal Processing

APPRENTICESHIP

Cisco CCNA Syllabus

Transmission Technologies

SQL Databases

Practical Programming & CGI

Systems Integration & Workflow

Development

Codecs & Standards

EMPLOYMENT & VOLUNTARY WORK

BBC | OPERATIONS ENGINEER (3 YEARS)

Jun 2018 – Present | Glasgow, Scotland

- Based in BBC Scotland with Engineering Operations, supporting operations across TV, Radio and building & facility infrastructure at sites across Scotland.
- Project work - worked to build new edit facilities at Dumbarton studios, VO booths in TV Presentation and upgrading DAW spaces in Pacific Quay.
- Operational work - 1st line work supporting a 7x20 shift pattern of incident management cover as well as taking on responsibility of 2nd and 3rd line work.
- Taken primary system ownership for supporting and developing a number of systems in BBC Scotland including the internal Raven ingest/playout system.
- Worked with key industry suppliers and partners such as Grass Valley, Viz and VCS to find resolutions to incidents which require supplier intervention.

BBC | PROJECT MANAGER (1 YEAR)

Jan 2020 – Jan 2021 | Glasgow, Scotland

- Undertook a year-long secondment to BBC Scotland PMO.
- Managed the upgrade of the VCS radio prod & playout system within Scotland, a multi-site, pan-BBC service upgrade - liaising between local prod teams, BBC suppliers, and local & national engineering support.
- Other projects include managing the design, tender & procurement of the £180,000 studio infrastructure upgrade across the 3 major Pacific Quay TV studios from an established BBC supplier.
- Returned to ops-supporting projects during COVID - I designed, transferred & implemented a number of knowledge management services for use within eng support in BBC Scotland - from procurement & infosec approval of an enterprise Password Manager to be offered as a service in BBC Scotland, migrating knowledge from an old wiki to the BBC's "Confluence" managed service, & developing our documentation to match our support model.

BBC | TRAINEE BROADCAST ENGINEER (2 YEARS)

Jul 2016 – May 2018 | Glasgow, Scotland

- Based in BBC Scotland with Production Technology Development.
- Attachment to BBC South West (Plymouth) working in operational support.
- GE2017 - Guaranteed the IP Video & Comms service from the Emirates Arena.

BBC | APPRENTICE BROADCAST ENGINEER (3 YEARS)

Sep 2013 – Jul 2016 | Birmingham, England & Glasgow, Scotland

- Worked as a 3rd line engineer for English Regions' testing and development team, including with the project team releasing ViLoR to English Regions
- Supported local TV & radio operations in England and was part of the team that won an RTS Midlands award for "Best News Programme".
- Secondment to Arqiva & changed the Radio 4 Long Wave antenna at Droitwich.
- Was part of the GE and Referendum staff for two General Elections, a Scottish GE and two referendums, as well as the Commonwealth Games.
- BEng dissertation was to write and support production-facing software services for the Scottish General Election teams.

NATIONAL STUDENT TELEVISION ASSOCIATION (2 YEARS) |

TECHNICAL OFFICER

Jul 2012 – Jul 2014 | UK Nationwide

- Elected & re-elected for two terms of office.
- Deployed a total redesign of the association's website & streaming platform.