

# Calum Brookes

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## EDUCATION

### UNIVERSITY OF SALFORD

BSc BROADCAST ENGINEERING

First Class Honours

### BIRM. CITY UNIVERSITY

MSc BROADCAST ENGINEERING

Distinction - Expected June 2018

## 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

## SKILLS

### PROGRAMMING

Languages:

Java • Bash • Python • LaTeX

Matlab • C • C++ • SQL

### ENGINEERING

Languages:

Project Engineering

Requirements Assessment

Technical Documentation

IP Infrastructure

Broadcast Hardware

TV & Radio Distribution

Broadcast Automation

Workflow Improvement

Systems Integration

Control Software Dev (BNCS)

Monitoring Tools (Icinga/Nagios)

## EMPLOYMENT & VOLUNTARY WORK

### 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 on an AV suite project & frontline support.
- GE2017 - Guaranteed the IP Video & Communications circuits from the Emirates Arena OB.
- Accepted, installed and tested a camera streaming platform where users can stream QOS protected MPEG video directly from their camera to BBC Pacific Quay without additional equipment.
- Attended IBC 2017.
- Commissioned an action replay service for Scottish Prem. Football coverage.
- MSc - Currently delivering an automated streaming distribution installation for the Scottish Symphony Orchestra.

### BBC | APPRENTICE BROADCAST ENGINEER (3 YEARS)

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

- Worked as a development engineer for English Regions' testing and development team.
- Worked alongside the project team responsible for releasing ViLoR to English Regions.
- Supported local TV & radio operations in England, both as an SNG engineer and as a studio support engineer.
- Was part of the team that won an RTS Midlands award for "Best News Programme".
- 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.
- Supported OB trucks at the Commonwealth Games and, Hogmanay 2013 and 2014.
- Worked on two secondments to London and Cardiff's Master Control Rooms.
- Attended IBC2015.
- BEng dissertation was to write production-facing software for the Scottish General Election, which was developed quickly and as lean as possible using an agile process.

### NATIONAL STUDENT TELEVISION ASSOCIATION (2 YEARS) |

#### TECHNICAL OFFICER

Jul 2012 – Jul 2014 | UK National

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