

# MATT HOGAN

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GoLang, Cisco IOS, AXIS, Unifi, PHP, JS, Java JDK 8, CentOS 7, Windows Server, IP Networking, IT monitoring, Linux System Administration, RHEL, Netgear, TPLink, Virtualization, Tait Tier 3, RF systems, Cisco IPsec, L2TP/IPsec VPNs, QNAP, FreeNAS

I'm a highly experienced full-stack software & web, Cisco & IP networking, and Linux (RHEL) engineer and general technician, specializing in the live events and entertainment industry. For references and questions, please do not hesitate to contact me at any time using the methods listed above.

I was born on April 30, 1998, in Surrey and raised in Hampshire, England. I have been interested in computer systems since a very young age and wrote my first computer program, an Arduino-C project that wrote my name on a small LCD display, at the age of thirteen. I decided to leave college in 2015 and start my career in the live events & entertainment industry, following in the footsteps of my father, George Hogan.

## • Skills 2

### Live events & entertainment, and related software

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(Descending order)

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### Collection of game-related projects

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(Unordered)

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## Skills

### Live events & entertainment

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- Experienced in AXIS brand cameras, and control systems (AXIS Companion, AXIS Camera Station, etc)
- Experienced in Tait Tier 3 trunking systems, and various other systems
- Experienced with general Radio shack technician software and technologies
- Basic experience building and managing RF systems
- Basic experience with MediorNet

### Networking, RHEL, and general system administration

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- Highly experienced in Linux, and specializing in RHEL.
- Highly experienced in database platforms such as MongoDB and MySQL, KV databases such as Redis, and AMQP software such as RabbitMQ
- Experienced with VMware ESXi
- Experienced with Cisco IOS
- Experienced in large storage platforms like QNAP and FreeNAS
- Experienced in fibre networks
- Experienced in Ubiquiti Unifi, APs, USGs, Switches, unifi controllers
- Experienced in backup technologies such as BorgBackup
- Experienced in AWS
- Experienced with many general networking, and switch brands, netgear, tplink, netronix, etc
- Experienced with Oses such as MacOS, and Windows Pro & Server versions 7 and 10

### Programming

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- Highly experienced (fluent) the following programming languages:
  - GoLang 1.13+
  - Java 8+
  - HTML5/CSS3
  - PHP 5, 7+
- Experienced the following programming languages:
  - Javascript
- Basic experience in the following programming languages:
  - C/C++
  - Bash

# Laver Cup 2019

Networking and RF Engineer  
Creative Technology Ltd (ct-group.com)

September 2019

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Radioshack technician on multi-site fibre linked Tait Tier 3 radio system.

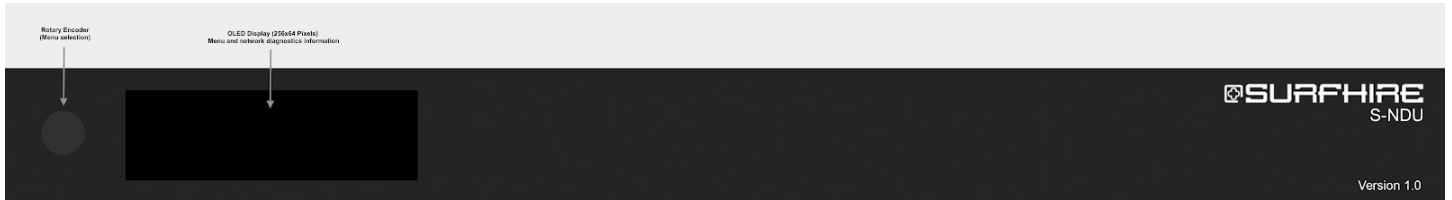
## Technologies used:

- Tait Tier 3
- Netronix

# NDU (Network Diagnostics Unit)

Software Engineer  
Surfhire Ltd

March 2019



NDU (Network Diagnostics Unit) is a hardware solution for IP network monitoring on jobs and tours. It watches services and devices on the network, using either TCP Sockets or ICMP requests. It is designed to be used by non-technically minded individuals on gigs that don't require a full-time engineer.

Each 1U unit has two network interfaces, and is powered by 802.3af PoE. NDU features an easy to use web management panel, for configuring services, network and other general settings.

NDU has the capability to connect to a remote server (Hosted in AWS cloud) on port 443 and reverse-proxy requests, which allows NDU to be remotely managed and monitored without special firewall requirements from venue and public internet.

## Technologies used:

- GoLang 1.13
- Java JDK 8
- PHP 7
- Javascript
- HTML/CSS
- C/C++
- Target 3001
- Nginx
- Redis
- MongoDB
- Raspberry Pi
- Arduino-C
- Docker
- AWS
- WebSocket
- RHEL (CentOS 7)
- Bash

## London NYE 2018-19

Network Engineer  
Delta Sound Incorporated (UK) Limited

December 2018

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Installation and management of 16 node Cisco EIGRP mesh network, and AXIS brand CCTV cameras. I also configured monitoring systems for all networking equipment, using a custom written mesh monitoring and management tool called DSM.

### Technologies used:

- Cisco IOS
- EIGRP
- AXIS

### Technologies used (DSM):

- Java JDK 8
- PHP 7
- Javascript
- HTML/CSS
- RHEL (CentOS 7)
- Nginx
- PHP-FPM
- MongoDB

# British Fashion Awards 2018

Network Engineer  
Delta Sound Incorporated (UK) Limited

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December 2018

Radioshack technician

Technologies used:

- Motorola
- DRI v0.0.1-beta

# 16 node EIGRP Cisco mesh network development and build

Network Engineer  
Delta Sound Incorporated (UK) Limited

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August 2018

Build and configuration of 16 node Cisco EIGRP mesh network, used on big jobs to link comms sites.

Technologies used:

- Cisco IOS
- Netgear

## DRI (Delta Radio Inventory)

Software Engineer  
Delta Sound Incorporated (UK) Limited

December 2017 - May 2018

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DRI (Delta Radio Inventory) is a radio tracking and inventory system. The software is web-based and runs on an embedded PC. It was originally written for London NYE 2017, and has been used on many jobs since.

The software builds the radio, accessory and crew database live; there is no pre-job prep required to use DRI.

### Technologies used:

- GoLang 1.13
- Java JDK 8
- PHP 7
- Javascript
- HTML/CSS
- RHEL (CentOS 7)
- Bash
- Nginx
- PHP-FPM
- Redis
- MongoDB



# Commonwealth Heads of Government Meeting 2018

Networking Engineer, Radioshack Technician  
Delta Sound Incorporated (UK) Limited

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April 2018

Network engineering on a microwave-linked switch network, and Radio Shack technician.

Technologies used:

- Motorola
- Ubiquiti airFiber
- DRI v0.0.1-beta

## London NYE 2017-18

Networking Engineer, Radioshack Technician  
Delta Sound Incorporated (UK) Limited

December 2017

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AXIS camera administration & installation, network engineering on a microwave-linked switch network, and Radio Shack technician.

### Technologies used:

- AXIS
- Cisco IOS
- CentOS 7
- Windows Server
- Netgear
- QNAP NAS
- Motorola
- Ubiquiti airFiber
- DRI v0.0.1-beta

# IAAF World Championships London 2017

PHP & JS Programmer, Systems Administrator, Networking Engineer  
Surf Hire, LTD

August 2017

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Disaster recovery for the Unifi controller that was being used to configure upwards of 1000 Ubiquiti cloud-based devices (Switches, APs etc) which were being used in the [IAAF World Championships London 2017](#) temporary infrastructure. I was able to recover the controller with enough time left before the event started for the engineers to complete the configuration. I was then developed a web application called SGR (Surfhire Gradwell Report) which logged phone calls and performed basic analytics.

#### Technologies used:

- PHP 7
- Composer 1.5
- Javascript
- HTML 5 & CSS 3
- CentOS 7.2 (CLI)
- Nginx 1.10
- MongoDB 3
- Git (via Github)

# Mobile World Congress 2017

PHP & JS Programmer  
Creative Technologies, LTD

January 2017

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I developed a web application which converted a laminate (Crew list) sheet into XML, which is then imported into the Tait radio programming tool. I built a custom parser for the laminate's format in PHP 7 and JS. This was originally built for use on [Mobile World Congress 2017](#) and will have continued use afterwards.

## Technologies used:

- PHP 7
- Javascript
- HTML 5 & CSS 3
- CentOS 7.2
- Nginx 1.10
- MongoDB 3
- Git (via Github)
- jQuery 3.1.1
- AJAX

## Eden TV series on Channel 4

PHP & JS Programmer and Systems Administrator  
The Wireless Works (UK), Limited

April 2016

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Systems Administrator and PHP & JS Programmer for a real-time GPS tracking system and RF control system. These systems are part of the life support infrastructure used on the [Eden TV series](#) that aired on [Channel 4](#) 18th July 2016

### Technologies used:

- PHP 7
- Javascript
- AJAX
- jQuery 2.2.3
- HTML 5 & CSS 3
- Git (via Github)
- Ubuntu 14 LTS
- MySQL 5.5
- Apache 2.4
- Raspbian

# Wimbledon Tennis

PHP Programmer and Systems Administrator  
The Wireless Works (UK), Limited

Early 2015

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PHP Programmer for a live television control system which was used for the Wimbledon Tennis. The controller simply parsed user input and executed Bash scripts to control hardware relays.

## Technologies used:

- Javascript
- AJAX
- MySQL 5.5
- HTML 5 & CSS 3
- Git (via Github)
- jQuery
- Debian

## One Direction Tour

IT Assistant

November 2015

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IT Assistant for the Ohio USA, Toronto Canada, and Sheffield UK shows, I worked alongside my father. We installed the Internet and IP phone systems throughout the venues for the crew, production and artists. I wasn't involved in the initial setup of the system, only the load-in and cable routing at the venues.

## Game-related software engineering

Between 2012 and 2019 I have completed 100s of Minecraft Server related small-medium software projects for the following companies.

- Trelous, Inc
- Mineverse LLC
- Voldex Services, Inc
- Noble Pro Management Ltd
- Zironenetwork, Inc