# *Mathew Briggs*

atsutob.github.io/DSJournal/

Loughborough, LE11                    mathew.briggs@costain.com
M: 07956992669                         Graduate member of the ICE

## **Profile**

I am an inquisitive and dedicated individual with a range of experience within construction engineering, project and tender planning. I am an active member of the London projects data and analytics group for whom I lead a project to build a team of people with vision, a blend of expertise and a desire to drive change into how projects leverage their knowledge and exploit data through analytics.

I am passionate in the technology adoption in construction industry. Currently I am interested in the feasibility of AI in planning and the use of data science for the implementation of continuous business improvement systems.

## **Previous Work**

May 2016 – Present (~2 years)

### ***Planner - Costain: London Bridge Station Redevelopment***

- Quality planning
- Lean/Collaborative planning
- Construction planning
- Data analytics
- Power BI
- DAX

Designed and implemented an end to end semi-automated reporting system to track quality assurance at project level using APIs, SharePoint, power BI and MS Teams. Integrating ~70,000 rows of data from 7 different cloud sources including P6, Salesforce and Fieldview.

Built a planning tool to assess resource loading to complete quality activities for handback of ~10,000 drawings and ~1400 assurance packs.

Led on site post-it co-ordination meetings to push close out of defects, instilling ownership of the plan and co-ordinating 35 subcontractors.

Involved with the setup of a handback strategy focusing on the progressive handover of assets.

Scheduled a work package of brick and blockwork activities and resource loaded the P6 programme. Produced 3 weekly lookahead slides. Performed statistical analysis on construction duration rates for fit out trades to validate construction activity durations.

August 2015 – May 2016: (10 months)

### ***Tender Planner - Costain: Central Work Winning***

- Tender Planning
- P6 programming
- Programme critical path analysis

I was involved with tenders including; BAE systems primary build capacity (£70million) and Newark waste water improvement project. I Assisted with a validity analysis of a tender programme for the Hitachi GE nuclear power station bid (£8bn) as well as planning for TFL ECI Structures and Tunnels Improvement Programme (STIP) ECI stage 1 outline concept design (200million framework).

I also provided planning support to the Bradford schools BSF legacy team for re-work of a 70m long 6m deep drainage run. As the only planner on the project, I was required to present the programme in a manner to win back trust to improve our client relationship and liase with the team to ensure schedule certainty.

Summer 2014: (12 Weeks)

***Placement student - ABC Electrification: WCML Power Supply Upgrade***

- Design Mangement
- Overhead line equipment design assurance
- Design drawing component checking.

Liaised with several associate companies based around the UK with contacts up to director level. Produced risk management and design progress trackers. Conducted process analysis to identify areas of improvement.

Summer 2013: (14 weeks)

***Placement student - Aone+: Area 12 MAC Project***

- Site Engineer
- Cyclic maintenance routine
- Commercial team, helping to prepare target pricing

The main tasks and responsibilities involved the setting out and supervision of a providers work scheme for a concrete step barrier along the M1 J38-39 (2million). This included giving site inductions, works complete measurements, completing ITPs and liaising with the design team when agreeing site solutions.

Summer 2010:

***Interpreter for the Japanese Olympic Jumping Squad***

Interpreting and liaising between Japanese athletes, British coaches and Olympic organisers during briefings, training and Japanese squad outings.

## Key Skills

Planning packages:

- Primavera P6 Enterprise PPM

(skill level: 2 years of daily use on top of attending Costain's P6 core skills and P6 resource assignment each 2-day training courses)

Computer applications, BI tools and programming languages:

Python, visual basic for applications, SQL, Visio, Photoshop CS6, AutoCAD 2012 and 2015, Sketchup 7 and 2016.

Construction:

CSCS Academically Qualified Person (white) card. Expires July 2022

CITB Core Trades Course (Steel fixing, Formwork, Concrete, Excavations support, Brickwork and Drainage). Completed 19th February 2016

First Aid:

St John Ambulance First Aid at Work Valid until 1st December 2018

## Achievements

2011 – 2012: Appointed Leader of the Leicestershire Schools Symphony orchestra

2012 – 2013: Loughborough University Music Scholarship award

2012: Grade 8 Violin in Music Performance

2012: Duke of Edinburgh Silver Award

2010: Grade 7 Classical Guitar in Music Performance with Distinction

## Education

***2012 – 2015: Loughborough University***

Civil Engineering BEng 2:1

Dissertation title: Laser scanning of deformations of soil reinforced structures

***2005-2012: Loughborough grammar School***

A-levels: Maths A, Biology A, Physics B.

Achieved 8 A*-A grades for GCSE including Maths, Physics and English

## Referees

Rupert Shingleton – Project Director (Manager while at London Bridge Station)

Phone: 01628 842184

Email: Rupert.Shingleton@costain.com