JULIAN MERCER

SITE ENGINEER

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PROFESSIONAL SUMMARY

Site Engineer with 5+ years setting out, supervising, and documenting works on infrastructure and building projects. Translates drawings into safe daily work for crews and subcontractors, checks quality against specification, and keeps records, quantities, programme updates, and client reporting accurate and complete.

PROFESSIONAL EXPERIENCE

Site Engineer
Feb 2022 - Present

Mace, Manchester, UK

- Set out foundations, columns, and slab edges on a 12-storey office frame using total station and GPS, holding tolerances within 5 mm and checking each level against the model before pours.
- Supervised groundworks and concrete gangs of up to 25 operatives, briefing each shift on sequence, hazards, and quality checks and walking the area again before sign-off each afternoon.
- Maintained inspection and test plans, completing 340 hold-point checks with the client's engineer and receiving no rework instructions on the structural frame during the contract.
- Updated the weekly programme with the planner, flagging a late rebar delivery in time to resequence the pour and keep the frame on its agreed completion date without extra labour.
- Reconciled concrete and reinforcement quantities against the bill each month, identifying about 3% wastage that was cut within a quarter through tighter ordering and cutting schedules.
- Raised and tracked technical queries with the design team and the client's engineer, closing 85 within agreed response times to keep the concrete frame on programme and on budget.

Graduate Site Engineer
Sep 2020 - Jan 2022

Balfour Beatty, Birmingham, UK

- Supported delivery of a £24M highway junction upgrade, covering drainage, earthworks, and kerbing for two work sections under live traffic management and nightly road closures.
- Checked levels and compaction results for earthworks with the testing laboratory, recording them in the quality system and escalating any failed tests to the section manager the same day.
- Prepared daily diaries, labour returns, and photographic progress records that the commercial team used in monthly valuations and in extension-of-time reviews with the client.
- Coordinated utility diversions with statutory undertakers, keeping a live tracker of permits, dates, and crews that helped the section avoid two stop-work periods and late handovers.
- Completed risk assessments and method statements for lifting and excavation tasks, reviewed and approved by the section manager before each activity began on site.
- Led weekly toolbox talks on excavation safety and near-miss learning, contributing to a project record with zero lost-time incidents over 14 months of live traffic works for the council.

Placement Engineer
Jul 2019 - Aug 2020

Arup, Leeds, UK

- Assisted site supervision on a flood-alleviation scheme, logging pile, wall, and backfill inspections.
- Produced as-built survey sketches and marked-up drawings from site measurements that fed the final record set, and checked them against the contractor's drawings before issue to the client.
- Checked contractor submittals against specification clauses and compiled consolidated, referenced comments for the design team's review each week.
- Measured completed works on site with the senior engineer and drafted interim quantity statements, supporting accurate and well-evidenced monthly valuations for the contractor.
- Logged daily progress photographs and measurements for the resident engineer and client.
- Learned the permit-to-work and temporary works processes by shadowing the temporary works coordinator on three structures, including checks on propping and formwork before each pour.

CORE SKILLS

Setting out | Total station and GPS | Site supervision | Quality inspection | Quantity reconciliation | Programme updates | Method statements | Risk assessment | Technical queries | Temporary works awareness | AutoCAD | Civil 3D | Excel | As-built records | Permit to work | Health and safety | Client reporting

EDUCATION

B.Eng. in Civil Engineering, University of Leeds, Leeds, UK

CERTIFICATIONS

CSCS Professional Card | SMSTS Site Management Safety Training | ICE Graduate Membership | First Aid at Work