



Daniel Kowalski

Junior Industrial Engineer

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BEng Industrial Engineering graduate from Aston University with a **12 month Year in Industry** at Jaguar Land Rover. Conducted time studies on **3 assembly line stations**, identified a layout change that reduced operator walking distance by **18%**, and supported value stream mapping that contributed to **£95,000 in annual savings**. Proficient in Lean tools, Minitab, and AutoCAD, with **Upper Second Class Honours (66% average)** and Six Sigma Yellow Belt certification.

Experience

Industrial Engineering Placement Student, Jaguar Land Rover, Solihull

Jul 2024 – Jun 2025

Completed a 12 month Year in Industry placement in the manufacturing engineering team at JLR's Solihull plant.

- Conducted time studies on **3 trim and final assembly stations**, recording cycle times for over **200 task elements** across a production line running at 42 units per hour
 - Proposed a workstation layout change that reduced operator walking distance by **18%** and improved ergonomic scoring, implemented on 2 stations
- Supported a value stream mapping exercise on the door sub-assembly line, identifying waste worth **£95,000 per year** in excess inventory and waiting time
 - Created **8 standard work instruction sheets** in AutoCAD and Excel following line rebalancing activities

Warehouse Operative (Summer Work), DHL Supply Chain, Birmingham

Jun 2024 – Jun 2024

Temporary warehouse role during the summer before starting the placement year.

- Picked and packed an average of **180 orders per shift** with an accuracy rate above **99.5%**
- Operated reach truck and counterbalance forklift (certified) in a 50,000 sq ft distribution centre

Education

BEng (Hons) Industrial Engineering in Industrial Engineering, Aston University, Birmingham

Sep 2021 – Jun 2026

Graduated with Upper Second Class Honours (**66% average**).

- Final year project on discrete event simulation of a bottling line using Arena, identifying a configuration change that increased throughput by **11%**, graded **73%**
 - Relevant modules: Lean Manufacturing, Operations Research, Quality Engineering, Supply Chain Management, Ergonomics

Skills

Lean Manufacturing (VSM, 5S, SMED) • Time & Motion Study • Minitab (Statistical Analysis) • AutoCAD • Arena (Discrete Event Simulation) • Standard Work Documentation • Process Mapping • Ergonomic Assessment (RULA/REBA) • Root Cause Analysis (5 Whys, Fishbone) • Microsoft Excel (Pivot Tables, VBA) • Technical Report Writing • Forklift Licence (Counterbalance & Reach)

Certifications

Six Sigma Yellow Belt, Jaguar Land Rover (Internal Training)

Jan 2025 – Jan 2025

Counterbalance & Reach Truck Licence, RTITB

Jun 2024 – Jun 2024

Languages

English - Native • Polish - Conversational

Projects

Bottling Line Simulation Study (Final Year Project)

Sep 2025 – Apr 2026

Built a discrete event simulation of a 6-station bottling line using Arena to identify throughput constraints.

- Modelled **6 workstations** with stochastic processing times calibrated from **120 time observations**
- Tested 4 configuration scenarios and identified that adding a buffer between stations 3 and 4 increased throughput by **11%**
 - Validated the model against real production data with a mean absolute percentage error of **3.2%**

Extra Curricular Activity

Aston University Engineering Society Events Officer

Sep 2023 – Jun 2025

Organised **3 factory tours** (JLR Solihull, BMW Hams Hall, Cadbury Bournville) and **4 industry networking events** for **50+ students**.