MATEUSZ ŻUŁAWSKI

CNC SETTER / MECAL ON-MACHINE PROGRAMMER / PRECISION MANUFACTURING

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12+	2022	2	15
YEARS IN UK MANUFACTURING	CNC MACHINING SINCE	MECAL 4-AXIS MODELS SET & PROGRAMMED	COURSE CERTIFICATES 2022–2026

PROFILE

CNC setter with more than twelve years in UK manufacturing and hands-on CNC machining since 2022. My strongest independent experience is **setting and on-machine programming of Mecal 4-axis machining centres** for long aluminium extrusions: complete changeovers from job pack to release, first-off inspection and corrections made at the source. I now set **conventional VMCs** in a foundry machine shop, backed by Tier 1 automotive work for Jaguar Land Rover and aerospace machining on Mazak.

EXPERIENCE

CNC Programmer Setter Operator
OCT 2026 – PRESENT

Newby Foundries · Wednesbury, UK

KIT Conventional VMCs · Fanuc control · DTI · G54

- Set conventional vertical machining centres in a foundry machine shop, working from the drawing to a verified first cut.
- Clock vices and fixtures with a DTI, centre bores with an indicator and establish work datums manually.
- Enter and verify G54 work offsets; unfamiliar setups are checked before the first cut while I build speed and repeatability.

CNC Setter Operator
AUG 2026 – OCT 2026

Mettis Aerospace · Redditch, UK

KIT Mazak machining centres · Mazatrol M-32

- Machined high-value aerospace components within established production and quality processes.
- Adjusted wear and work offsets at the control.

CNC Setter / Programmer
JAN 2026 – JUL 2026

ABL Aluminium Components Ltd · Birmingham, UK

KIT Mecal MC307 Falcon ×2 · Mecal MC304 Ariel · Mecal 3D CAD/CAM

- Independently set and programmed three Mecal 4-axis centres machining long aluminium extrusions in high-mix production.
- Ran complete changeovers from job pack to release: drawing review, tool preparation and data verification, clamps and stops, A-axis clearance checks, simulation, prove-out.
- Programmed on the machine in Mecal 3D CAD/CAM: modified existing programmes, edited hole, slot and pocket features, set feeds and speeds, and built simple programmes from technical drawings.
- Inspected first-offs against the drawing and corrected deviations through Counterblock, programme edits or tool data.
- Troubleshot process problems and supported operators on the cell.

Sep 2024 – Dec 2025 CNC Operator on the same Mecal cell

CAPABILITY

INDEPENDENT

Mecal 4-axis setting and full changeovers

On-machine programming, Mecal 3D CAD/CAM

First-off inspection and fault diagnosis

Drawing review and job-pack preparation

CURRENT · BUILDING FLUENCY

Conventional VMC setting: datums, DTI alignment, bore centring, G54

OPERATOR LEVEL

Conventional CNC operation, wear and work offsets

MACHINES

Mecal MC307 Falcon 4-axis · 2 units	SET · PROG
Mecal MC304 Ariel 4-axis	SET · PROG
Conventional VMCs 3-axis · Fanuc	SETTING
Mazak Mazatrol M-32	OPERATION
Chiron Magnum	OPERATION
Mori Seiki	OPERATION

TOOLS

Mecal 3D CAD/CAM — programme edits, simple programmes, simulation

Mecal PC control — setting, Counterblock corrections

Measuring — micrometers, verniers, height gauges, DTI

EXPERIENCE, CONTINUED

AUG 2022 – AUG 2024

Dana Axle UK

CNC Operator · Birmingham

Machined Jaguar Land Rover axle components on Chiron Magnum and Mori Seiki machines to high-volume Tier 1 standards; wear and work offset adjustments at the control.

JAN 2018 – JUL 2022

Dual Metallising

Machine Operator

Vacuum metallising in industrial production; monitored product quality and process consistency.

JUL 2016 – DEC 2017

Carter Retail Equipment

Machine Operator

Production machinery for retail equipment and refrigeration units.

AUG 2014 – JUL 2016

IAC Group

Machine Operator

Tier 1 automotive manufacturing for Jaguar Land Rover.

SETTING PRACTICE

01 · CHANGEOVER

Mecal 4-axis changeover, job pack to release

One fixed sequence on two kinematics (Falcon rotates the clamp beam, Ariel tilts the spindle head): drawing, programme, tools, clamps and stops, A-axis clearance, simulation, prove-out.

02 · PROGRAMMING

On-machine programming in Mecal 3D CAD/CAM

Programmes kept in step with the drawing and the real part: features repositioned and edited, feeds and speeds set. Every change simulated, then physically proved out.

03 · INSPECTION

First-off inspection and corrections

First-off measured against the drawing; deviations corrected where they start (Counterblock, programme feature or tool data) and re-measured before release.

04 · TRANSFER

From specialist Mecal to conventional VMC

The same setter's questions applied where the setter establishes the datum: DTI clocking, bore centring, G54 entry and verification, a check before the first cut.

WORKING RULE

No number is changed until the physical cause of the error is understood: reference, tool, workholding, machine state, process force, measurement.

CERTIFICATES & PROFESSIONAL DEVELOPMENT

ADVANCED MANUFACTURING

- Intelligent Machining — UNIVERSITY AT BUFFALO, SUNY · MAR 2026
- Advanced Manufacturing Process Analysis — UNIVERSITY AT BUFFALO, SUNY · FEB 2026
- Digital Thread: Implementation — UNIVERSITY AT BUFFALO, SUNY · FEB 2026
- Digital Thread: Components — UNIVERSITY AT BUFFALO, SUNY · AUG 2025
- Digital Manufacturing & Design — UNIVERSITY AT BUFFALO, SUNY · JUL 2025
- Future of Production — STARWEAVER · JUL 2025

AI & DIGITAL SKILLS

- Generative AI: Prompt Engineering Basics — IBM · JUN 2026
- Introduction to Artificial Intelligence (AI) — IBM · JUN 2026
- Microsoft 365 Copilot for Leaders — VANDERBILT · 3 COURSES · MAR 2026
- Google AI Professional Certificate — GOOGLE · 7 COURSES · MAR 2026
- Gen AI for Executives: Gen AI Adoption — MICROSOFT · MAR 2026

LEADERSHIP & MARKETING

- Intro to Change Management — UNIV. OF CAMBRIDGE · MAR 2026
- Leading Teams: Developing as a Leader — UNIV. OF ILLINOIS · MAR 2026
- People Management Essentials — GOOGLE · 4 COURSES · MAR 2026
- Introduction to Social Media Marketing — META · DEC 2022

Online course certificates issued through Coursera; verification IDs listed at mateuszzulawski.com/en/certifications

PUBLISHING

Practical Manufacturing AI: creator of a 17-part educational series on CNC machining, metrology, process stability and responsible AI on the shop floor, including *Specialist CNC for Aluminium Extrusions vs a Conventional VMC*.

EDUCATION

XIV Liceum Ogólnokształcące, Gdańsk, Poland

General secondary education, Matura

2003 – 2006

LANGUAGES

Polish native · **English** CEFR B2, British Council, Sep 2024; used daily at work

Based in the UK; open to future roles in Gdańsk / Tricity, Poland. Interests: history, sport, travel.