

Matthew Johns

CNC Machinist



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mattj-cnc.com

PROFESSIONAL OVERVIEW

Applications Engineer and CNC Machinist with hands-on expertise in multi-axis machining, advanced CAM programming, and post-processor development across diverse manufacturing environments. Proven ability to deliver customer training, optimize machining processes, and support complex production workflows, including 5-axis milling and mill-turn applications. Strong background in both precision manufacturing and heavy machining.

Expert SolidCAM Programmer with strong proficiency in Mastercam, Vericut, and hand-editing G-code.

EDUCATION

Ultimo TAFE, NSW

Certificate IV - CNC Machining
Certificate III - Fitting and Machining
Feb 2016 - Dec 2018

University of Technology, Sydney

Bachelor of Mechanical and Mechatronics Engineering (Incomplete)
Feb 2011 - Nov 2014

CERTIFICATIONS

- Forklift
- Dogging (Overhead Crane)
- Confined Space
- Elevated Work Platform
- SolidWorks Modelling Essentials
- White Card

SKILLS

SolidCAM Programming	● ● ● ● ●
Mastercam Programming	● ● ● ● ●
SolidWorks Modelling	● ● ● ● ●
3D Printing (FDM)	● ● ● ● ●

EXPERIENCE

Great Plains Industries Australia

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Oct 2025 - Present | Caringbah, NSW

At Great Plains Industries Australia, a global producer of flow meters and fuel transfer pumps, I focus on enhancing product throughput by reducing cycle time and scrap rates through ongoing improvements in tooling, fixturing, and CAM toolpath processes. Key Responsibilities:

- Programming, setup, operation and maintenance of the Okuma MB4000-H and Okuma LB3000
- Production planning and job sequencing, including batch sizing and quantity optimization
- Management of all workshop consumables

SolidCAM UK

Applications Engineer

Apr 2024 - Oct 2025 | Leeds, England

SolidCAM UK provides industry-leading CAD and CAM software across diverse manufacturing sectors, allowing me to gain broad technical exposure including niche machining applications. Key Responsibilities:

- Delivering comprehensive training to customers across all software modules - from basic Turning and 2.5D Milling to Simultaneous 5-Axis Milling and Swiss-Type Mill-Turn machining, as well as SolidWorks training
- Developing and modifying Post Processors
- Working with customers to program complex parts and toolpaths
- Organized and programmed demonstrations for open-day events using the Mazak CV5-500 5-Axis machining center.

QE Innovations

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Oct 2022 - Apr 2024 | Port Kembla, NSW

QE Innovations manufactures patented coal mining equipment sold to dozens of mine sites across Australia. The nature of the work was heavy machining, and as the sole machinist at the company I was required to manage many aspects of the machine shop. Key Responsibilities:

- Set-up, operation and maintenance of Okuma VTM-2000YB and Okuma MU400 - both machines with 5-Axis milling capability
- Using SolidCAM and Vericut to produce Mill-Turn programs on steel parts weighing up to 4000kg
- Collaborating with engineers to design fixtures and create robust manufacturing processes

RODE Microphones

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Feb 2021 - Oct 2022 | Silverwater, NSW

Rode Microphones is a world leader in audio technology. They produce dozens of injection moulds per year in their state-of-the-art toolroom. I was responsible for producing all Wire-EDM, CNC turning and manual turning work in the toolroom, along with some 5-axis milling where required. Key Responsibilities:

- Setup, operation and maintenance of Nakamura AS200-L and Makino U3 WEDM
- Inspection of parts using Zeiss CMM

ANSTO

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Mar 2019 - Feb 2021 | Lucas Heights, NSW

After finishing my apprenticeship early, I was hired as a machinist for the Support Services workshop. This brought with it the added responsibility of guiding and mentoring newer apprentices as they progressed through their apprenticeship.

Apprentice Fitter + Machinist

Feb 2016 - Mar 2019 | Lucas Heights, NSW

The Australian Nuclear and Science Technology Organisation (ANSTO) is home to Australia's only nuclear reactor. Working in the Support Services Workshop was a terrific introduction to the manufacturing industry. I was able to learn many different types of machining processes on a wide variety of materials.