




LEO TAN

CNC PROGRAMMER

CONTACT

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(123) 456-7890 

Prince George, VA 

[LinkedIn](#) 

EDUCATION

Bachelor of Science
Mechanical Engineering
Virginia Tech
2011 - 2015
Blacksburg, VA

SKILLS

SolidWorks
Siemens NX CAM
Vericut
CGTech VERICUT
NCPlot
ICAM Post-Processor
Renishaw MODUS
Rockwell Automation Studio
5000

WORK EXPERIENCE

CNC Programmer

Rolls-Royce North America

2019 - current / Prince George, VA

- Collaborated with the quality assurance team to align SolidWorks designs with stringent aerospace quality levels, achieving a 98% first-pass quality rate.
- Optimized toolpaths in Siemens NX CAM, making the aerospace turbine components 23% more precise with industry standards, achieving a **97% client satisfaction rate for product quality**.
- Enhanced simulation fidelity in NCPlot which cut down prototype iterations by 14% for RR300 series helicopter engine components, streamlining the development cycle.
- Integrated Rockwell Automation Studio 5000 to improve system error detection and handling, minimizing 31% of system faults and production stoppages.

Junior CNC Programmer

Alcoa Corporation

2016 - 2019 / Richmond, VA

- Conducted Vericut simulations for high-volume aluminum part productions, achieving a significant decline in machining errors by 22%.
- Leveraged Siemens Sinumerik Operate's advanced diagnostics to resolve recurring machine faults, slashing maintenance time by 17 hours.
- Implemented a 3D scanning system for part verification which grew inspection throughput by 42%.
- Presented a surface inspection protocol in Renishaw MODUS which **enhanced surface quality detection by 53%** for specialty aerospace alloys as per comparative surface finish analysis tests.

CNC Programmer Trainee

MTC Transformers

2015 - 2016 / Manassas, VA

- Created custom macros in Notepad++ for automating repetitive programming tasks, saving 8 hours of manual coding time every week.
- Worked closely with the senior CNC programmer team to resolve 23 challenging programming issues using CGTech VERICUT.
- Maintained compatibility of ICAM Post-Processor with 7 different CNC machine models, promoting flexible and efficient production lines.
- Assisted in routine maintenance of CNC machinery, **lowering unexpected machine downtimes by 36%**.